AN ULTRAVIOLET MULTIPLET TABLE

Finding List for Spectra of the Elements Molybdenum to Lanthanum ($Z=42$ to 57); Hafnium to Radium ($Z=72$ to 88)

Circular 488, Section 5

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards Circular series was discontinued in July 1959 with the inauguration of the NBS Monograph series. However, since the first two Sections of Circular 488 were published before 1959, the Circular designation is being retained for the remaining three Sections of this Circular.

UNITED STATES DEPARTMENT OF COMMERCE, Luther H. Hodges, Secretary
NATIONAL BUREAU OF STANDARDS, A. V. Astin, Director

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Finding List for Spectra of the Elements Molybdenum to Lanthanum ($Z = 42$ to 57); Hafnium to Radium ($Z = 72$ to 88)

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Circular of the National Bureau of Standards 488, Section 5

Issued April 6, 1962

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.
Price 30 Cents

Foreword

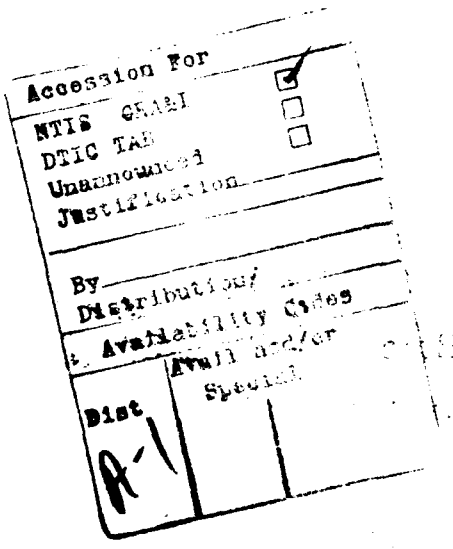
The present Section of NBS Circular 488, *An Ultraviolet Multiplet Table*, is the fifth and last one in this Circular. It is a finding list made up of all lines in Section 3 of the Multiplet Table, arranged in order of increasing wavelength and covering the elements molybdenum to lanthanum ($Z = 42$ to 57), and hafnium to radium ($Z = 72$ to 88).

The rare-earth elements have been omitted from the Multiplet Table and finding lists. When the analyses of these spectra are further advanced it is hoped that separate tables on rare-earth spectra can be published.

It is a pleasure to acknowledge the cordial collaboration of all who have contributed to the preparation of these extensive tables.

A. V. ASTIN, *Director.*

WASHINGTON, D. C., *September 21, 1961.*



Contents

ELEMENTS AND SPECTRA REPRESENTED IN THE FINDING LIST

1. Arrangement

The present Finding List has been prepared from Section 3 of this Circular. The Section contains selected multiplets of 78 spectra of 31 elements from Molybdenum through Lanthanum ($Z = 42$ to 57) and from Hafnium through Radium ($Z = 72$ to 88).

The Finding List is arranged similarly to the one comprising Section 4. The wavelengths are listed in column one in increasing order. From λ 355 to λ 2000.24 all wavelengths are in vacuum. In the intermediate region where those in vacuum and in air overlap, the entries "Air" and "Vac" are self-explanatory. From λ 2000.59 to longer waves, all wavelengths are in Air. This Finding List ends essentially near 3000 A. Some multiplets extend to longer waves, but the lines are limited to a few scattered miscellaneous members of multiplets.

The symbols in column one are identical with those in the Table. They are as follows:

* denotes a blend. If an asterisk precedes the wavelength and no symbol follows the wavelength, the line is blended with another in the same spectrum.

§ follows a wavelength (with an asterisk always preceding), to denote that the line is blended with one in a neighboring spectrum of the same element, i.e. first and second spectra, second and third spectra, etc. of a given element.

§§ special symbol following the wavelength (with an asterisk always preceding) used for blends not described by the above symbols.

‡ follows the wavelength of the *raie ultime* for first and second spectra as given by Meggers [1] or taken from later analyses.

P follows the wavelength when the predicted position of the line is given.

Column two indicates the spectrum to which the line listed in column one belongs. Finally, in column three the multiplet numbers taken from Section 3 are entered. As before, if the line is a blend and more than one designation is included in the Multiplet Table, the corresponding multiplet numbers are given separately in column three.

2. Scope of the Circular

The present Circular contains a limited number of lines in selected spectra over the range of elements from hydrogen to actinium, excluding the two groups of rare-earth elements, the lanthanides and the actinides. It is recognized that this forms a serious gap in the Ultraviolet Multiplet Table and lessens its general usefulness, at a time when the demand for data on rare-earth spectra is increasing.

Progress is being made with analyses of the rare-earth spectra, but the existing observations are seriously incomplete and the spectra are so complex that some time will be required to obtain sufficient data for a Multiplet Table. Consequently, it has appeared advisable to complete this Circular without the rare-earths, rather than delay publication of the data presented here.

3. Acknowledgments

The writer wishes to record here her personal gratitude to all of those who have generously collaborated in the preparation of this extensive table. Spectroscopists in many laboratories have cordially furnished unpublished analyses. The assistance, also, of the National Research Council Committee on Line Spectra of the Elements and especially that of R. C. Gibbs is greatly appreciated.

The details of compilation have been handled largely by Mrs. Isabel D. Murray; those of publication by J. E. Carpenter for special consultation; and Mrs. Betty L. Arnold whose competence in handling the publication details has been invaluable. The many users of the Ultraviolet Multiplet Table are indebted to them for their painstaking effort in handling the manuscript.

[1] W. F. Meggers, J. Opt. Soc. Am. **31**, 44 (1941), first spectra; ibid. **31**, 606 (1941), second spectra.

AN ULTRAVIOLET MULTIPLET TABLE††

FINDING LIST—ELEMENTS { MOLYBDENUM TO LANTHANUM (Z = 42 TO 57) / HAFNIUM TO RADIUM (Z = 72 TO 88)

I A	Spectrum	Multiplet No.
Vac		
355.66	Sn III	2
361.55	Sn III	3
373.14	Sn V	1
410.35	Mo V	5
411.08	Mo V	5
412.42	Mo V	5
414.11	Mo V	5
417.49	Mo V	4
420.61	Mo V	4
425.77	Mo V	4
428.63	Mo V	4
431.55	Mo V	4
434.52	Mo V	4
493.00	Cd IV	8
504.09	Cd IV	8
504.19	Cd IV	7
504.49	Cd IV	7
506.31	Cd IV	7
514.49	Cd IV	6
519.41	Cd IV	7
524.40	Cd IV	5
525.18	Cd IV	5
531.08	Cd IV	4
531.50	Cd IV	3
534.28	Cd IV	4
536.75	Cd IV	1
537.22	Cd IV	6
541.73	Cd IV	5
542.59	Cd IV	2
546.53	Cd IV	1
548.00	Cd IV	4
548.92	Cd IV	1
551.26	Cd IV	2
554.04	Cd IV	1
560.25	Cd IV	2
567.03	Cd IV	1
595.061	Sn IV	6
605.226	Sn IV	5
614.540	Sn III	4
619.039	Sn IV	6
624.164	Sn III	3
628.726	Sn IV	5
639.42	Cs II	6
651.68	Mo V	3
659.31	Mo V	3
660.28	Mo V	2
661.33	Mo V	2
661.40	Mo V	3
665.14	Mo V	3
668.09	Mo V	2
668.32	Mo V	2
668.39	Mo V	3
668.43	Cs II	5
670.87	Tl II	7
671.37	Mo V	2
672.24	Mo V	3
676.42	Mo V	3
677.39	Cd III	2
684.58	Cd III	3
684.702	Mo V	8
Vac		
685.31	In III	2
687.489	Mo V	8
688.422	Mo V	8
689.817	I II	35
690.551	Mo V	8
691.62	In III	2
692.263	Mo V	8
696.30	Tl II	6
698.284	Mo V	8
698.541	Xe III	9
700.624	Sn III	10
706.055	I II	34
707.797	Pd III	20
709.23	Tl II	5
709.80	Ag III	5
709.885	Pd III	53
711.944	Pd III	53
716.184	Mo V	6
717.331	Mo V	6
717.904	Pd III	53
719.474	Pd III	20
719.546	I II	33
720.70	Cd III	1
721.199	Xe III	7
721.834	Mo V	7
722.980	I II	32
*725.748	Mo V	1, 6, 7
726.96	Ag III	5
727.246	I II	31
727.720	Pd III	20
729.172	Mo V	6
730.04	Ag III	4
730.280	Mo V	7
730.83	Ag II	5
733.314	Xe III	8
737.546	I II	28
738.793	Pd III	19
740.406	Xe II	8
740.75	Hg III	1
740.950	I II	28
742.566	Xe III	7
748.781	I II	27
752.80	Ag II	4
753.014	Sn III	11
755.73	Ag III	4
756.031	Xe III	9
756.853	Pd III	19
758.308	Pd III	37
763.058	Pd III	37
*765.594	I II	27, 27
766.424	Pd III	17
769.143	Xe III	9
770.771	I II	28
772.110	Pd III	18
772.344	I II	30
773.055	I II	29
775.793	Sn III	11
776.315	Pd III	17
776.38	Ag III	3
776.681	Pd III	52
Vac		
777.367	Pd III	52
778.783	Pd III	52
*779.126	Xe III	6, 9
780.115	Pd III	36
*781.019§	Pd III	16
783.344	Pd III	15
783.805	Pd III	52
784.684	Sn III	10
784.985	Pd III	17
785.883	Pd III	17
787.276	Pd III	12
787.837	Pd III	35
787.950	Pd III	12
788.815	I II	57
789.08	Ag III	3
789.583	Pd III	52
790.17	Hg III	1
790.192	Pd III	34
791.147	I II	56
792.35	Ag III	1
792.896	Xe III	6
*794.078	Pd III	17, 51
794.237	I II	55
794.757	I II	54
795.585	Pd III	13
796.070	Xe III	5
796.384	Pd III	15
797.517	Pd III	12
798.158	I II	25
798.427	I II	25
799.013	Pd III	15
799.202	Pd III	33
799.41	Ag III	2
799.60	Te II	1
800.011	Pd III	11
*800.095	Pd III	16, 32
801.223	Pd III	16
*801.542	Pd III	11, 11
801.980	Xe III	3
802.28	Te II	1
802.286	Pd III	10
803.066	Xe II	8
*803.665	Pd III	9, 15
805.725	Pd III	15
806.317	Pd III	49
807.672	Pd III	16
*807.827	Pd III	12, 49
808.77	Cs II	4
808.82	Hg III	3
808.88	Ag III	1
809.536	Pd III	16
809.695	Pd III	8
813.192	Pd III	15
813.85	Cs II	2
*813.989	Pd III	14, 49
814.524	Pd III	6
815.053	Pd III	7
816.221	Pd III	31
*816.563	Pd III	13, 14
817.18	Tl II	4

†Finding List for Section 3.

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No.
Vac		
818.047	I II	24
818.679	Pd III	50
820.012	Pd III	30
820.342	Pd III	8
822.39	Ag III	1
822.69	Hg III	3
823.210	Xe III	4
823.426	I II	26
824.881	Xe III	3
825.076	Pd III	9
825.122	I II	23
825.345	Pd III	7
825.934	I II	18
*826.411	Pd III	7, 13
827.797	I II	26
829.316	Pd III	49
829.98	Ag III	2
831.168	I II	53
834.095	I II	22
834.978	Pd III	8
836.34	Tl II	3
836.476	Pd III	7
836.948	Pd III	48
837.146	Pd III	25
838.070	I II	18
838.11	Ag III	1
838.26	Cd II	5
839.94	Cd II	5
840.214	Pd III	47
840.579	Pd III	63
841.097	I II	25
*843.11	Hg III	1, 2
843.113	I II	21
843.454	Au III	4
845.138	Au III	3
845.268	Pd III	8
845.525	Pd III	29
846.295	I II	25
847.342	Pd III	46
847.52	Cd II	4
847.796	I II	20
847.926	I II	20
847.943	Pd III	7
848.868	Pd III	29
851.247	Pd III	62
851.593	Pd III	28
851.743	Pd III	45
852.636	Mo IV	3
*853.610	Pd III	45
854.354	Pd III	8
855.11	Hg III	3
855.294	Pd III	27
855.494	I II	52
855.968	Mo IV	3
856.470	Pd III	61
857.722	Mo IV	3
858.238	Pd III	3
859.692	Mo IV	3
860.38	Cd II	4
863.200	Pd III	27
863.209	Mo IV	3
863.509	Mo IV	3
863.590	I II	24
863.623	Mo IV	3
864.044	Pd III	4
Vac		
865.285	Pd III	60
866.075	Pd III	26
867.087	Pd III	43
867.699	Pd III	24
867.925	Mo IV	3
868.380	I II	24
870.34?	I II	19
870.43.	Pd III	3
871.061	Pd III	44
*871.491	Pd III	44
872.391	I II	18
873.057	Pd III	5
873.489	I II	10
873.71	Pb II	14
873.977	Pd III	60
875.674	Mo IV	2
875.931	Pd III	59
875.941	I II	51
877.276	I II	18
878.402	Mo IV	2
878.732	Pd III	2
879.844	I II	18
880.590	Pd III	4
880.802	Xe II	7
881.881	I II	17
882.24	In III	7
882.690	Pd III	3
884.207	Mo IV	2
884.786	Mo IV	1
885.537	Mo IV	2
885.54	Xe II	6
885.913	Pd III	4
885.982	Mo IV	2
886.820	Pd III	23
*888.842	Pd III	3, 4
889.276	Xe III	2
889.294	Pd III	2
889.68	Pb II	13
890.84	In III	6
890.995	I II	18
891.28	Cd II	3
891.674	Mo IV	2
892.029	Pd III	4
892.793	Pd III	40
893.107	Hg II	3
893.167	I II	16
893.989	Xe III	2
894.197	Pd III	3
*894.762	Mo IV	2, 2
895.354	Mo IV	1
895.599	Pd III	3
895.844	I II	10
895.957	I II	50
896.003	Xe III	2
896.376	I II	50
*896.692	I II	21, 50
*896.813	Pd III	23, 41
900.423	Pd III	42
900.490	Pd III	2
901.004	I II	10
901.34	Cs II	3
902.130	I II	20
902.900	Pd III	1
904.365	Pd III	2
905.313	I II	13
Vac		
908.871	Pd III	55
910.309	I II	49
910.924	Sn III	16
913.72	Cd II	3
913.900	Mo IV	1
914.858	Pd III	58
914.957	I II	15
915.582	Pd III	2
915.87	In III	7
916.467	Pd III	2
916.779	Pd III	1
917.007	I II	48
917.442	Pd III	22
917.45	In III	7
920.496	Mo IV	1
920.93	Bi III	4
921.343	I II	14
922.492	Pd III	1
923.147	Sn IV	3
923.393	Hg II	3
925.866	Xe II	6
926.44	Pb II	11
926.75 ‡	Cs II	1
926.83	In III	6
927.512	Pd III	57
929.143	I II	12
930.133	I II	11
930.142	Pd III	56
930.506	I II	48
930.855	Mo IV	
931.139	I II	10
935.405	Xe II	5
945.099	Au III	2
947.795	Pd III	21
956.249	Sn IV	4
958.76	Pb II	10
960.643	Pd III	39
962.753	Pd III	39
965.506	Pd III	21
965.540	Xe III	1
967.23	Pb II	9
967.378	I II	13
967.854	Pd III	39
972.682	Pd III	54
972.769	Xe II	4
976.678	Xe II	6
977.805	Pd III	38
978.394	I II	15
986.71	Pb II	8
989.103	Pd III	39
995.74	Pb III	3
995.768	I II	11
995.89	Pb II	14
997.167	Sn II	7
1000.572	I II	11
1003.350	I II	46
1003.370	Xe III	1
1003.457	I II	13
1003.612	I II	47
1008.385	Pd III	38
1009.936	I II	13
1010.918	Sn III	9
1011.94	Sb III	4
1016.61	Pb II	13
1017.216	Sn IV	11

FINDING LIST—CONTINUED

I A Vac	Spectrum	Multiplet No.
1017.680	Xe III	1
1018.583	I II	8
1018.85	Tl II	17
1019.230	I II	13
1019.400	I II	8
1019.719	Sn IV	4
1023.544	I II	9
1026.065	I II	8
1030.047	I II	8
1030.44	Pb III	5
1032.438	Xe II	3
1033.801	I II	44
1034.655	I II	6
1037.680	Xe II	5
1038.636	Mo IV	
1039.99	Bi III	3
1040.650	Au III	1
1040.715	Sn II	7
1041.306	Xe II	3
1042.154	I II	7
1044.487	Sn IV	2
1045.76	Bi III	4
1047.801	Xe III	1
1048.272	Xe II	3
1048.38	Cd II	2
1048.89	Pb III	2
1049.73	Tl II	17
1049.82	Pb II	12
1050.30	Tl II	17
1050.77	Pb II	12
1051.810	Bi III	2
1051.920	Xe II	2
1052.25	Pb III	3
1052.765	Sn IV	10
1053.875	Sn III	9
1054.582	I II	6
1054.742	I II	45
1055.83	Cd II	2
1058.370	Sn IV	14
1058.586	Sn IV	9
1060.66	Pb II	7
1065.58	Pb II	11
1065.90	Sb III	4
1066.273	I II	43
1066.391	Xe III	1
1067.341	I II	6
1069.12	Pb III	5
1070.43	Sb III	3
1073.09	Au II	4
1073.407	Sn IV	3
1074.476	Xe II	2
1074.66	Pb III	5
1074.97	Tl II	16
1075.210	I II	5
1075.82	Sb III	2
1077.078	Pt II	22
1080.366	Pt II	24
1081.61	La III	2
1082.540	I II	44
1082.551	Mo IV	
1083.860	Xe II	4
1084.06	Sb III	4
1085.405	I II	5
1085.47	Bi II	3
1089.347	Sn V	6

I A Vac	Spectrum	Multiplet No.
1096.448	Mo IV	
1096.916	Sn IV	13
1098.41	Pb III	3
1099.73	La III	2
1099.97	Mo V	23
1100.432‡	Xe II	1
1100.70	La III	2
1100.735	Sn V	5
1101.239	I II	10
1103.237	Sn IV	12
1103.590	I II	9
1103.94	Pb II	5
1105.000	I II	5
1107.05	Ag II	2
1108.128	Sn II	6
1108.43	Pb II	10
1109.028	Mo IV	
1109.84	Pb II	9
1111.165	I II	8
1112.46	Ag II	3
1114.99	Pb III	4
1117.219	I II	7
1119.344	Sn IV	2
1119.57	Pb II	9
1120.679	Sn IV	2
1121.36	Pb II	6
1125.251	I II	7
1127.07	Mo V	23
1130.17	Tl II	14
1130.344	Xe III	1
1131.504	I II	6
1132.794	Sn V	5
1133.14	Pb II	5
1137.963	Mo V	23
1139.015	Bi III	4
1139.293	Sn III	8
1139.752	I II	6
1139.805	I II	4
1145.91	Pb II	8
1148.517	Mo V	23
1151.49	Sb III	3
1154.668	I II	6
1157.74	Sb III	2
1157.85	Mo V	23
1158.333	Sn III	8
1158.474	Xe II	3
1159.010	Sn II	5
1159.297	Sn III	19
1159.871	I II	43
1160.562	I II	1
1161.092	Sn III	8
1161.412	Sn II	6
1161.579	Sn III	7
1162.20	Pd II	12
1162.55	Tl II	17
1162.920	Sn II	6
1163.636	Mo IV	
1163.80	Tl II	17
1165.03	Pb III	3
1166.070	Mo IV	
1166.482	I II	4
1166.96	Pb III	4
1167.054	I II	5
1167.43	Tl II	14
1168.282	Pt II	29

I A Vac	Spectrum	Multiplet No.
1169.17	Tl II	14
1169.325	Mo V	23
1169.63	Xe II	3
1169.741	Pt II	23
1174.30	Te II	1
1174.37	Pd II	11
1175.79	Te II	1
1175.841	I II	5
1178.650	I II	3
1183.053	Xe II	2
1183.41	Tl II	13
1183.45	Pd II	11
1184.156	I II	41
1184.254	Sn III	7
1186.216	Pt II	22
1187.338	I II	2
1188.83	Tl II	12
1189.918	Sn V	6
1189.96	Mo V	23
1190.243	Ru II	
1190.510	Ru III	1
1190.853	I II	42
1192.04	Xe I	4
1194.84	Tl II	16
1195.87	Ag II	1
1196.43	Pd II	12
1198.884	I II	5
1199.677	I II	41
1200.067	Ru III	1
1200.223	I II	2
1200.800	Mo IV	
1203.63	Pb II	4
1204.00	Pd II	9
1204.058	Sn III	19
1204.876	Ru III	1
1205.723	Sn V	4
1205.931	I II	39
1207.173	Ru III	1
1208.55	Te II	1
1209.774	Ru III	1
1210.575	Sn III	8
1211.306	Ru III	1
1214.388	Ru III	1
1214.58	Pd II	9
1215.105	Sn III	8
1216.125	I II	40
1216.238	Ru III	1
1217.000	Ru III	1
1217.142	I I	48
1218.136	Sn III	8
1218.411	I I	47
1218.66	Pd II	8
1219.090	Sn II	5
1220.887	I II	2
1223.430	I I	45
1223.716	Sn II	4
1224.077	I I	44
1224.501	I I	43
1224.57	Au II	1
1224.64	Bi III	3
1224.856	I I	42
1225.33	Pd II	11
1228.888	I I	41
1230.171	Sn III	18
1230.222	I II	4

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No.
Vac		
1230.732	I I	40
1231.20	Pb II	7
1231.81	Tl II	12
1233.069	I II	39
1233.463	I I	39
1234.063‡	I II	1
1234.347	Ru II	47
1235.23	Pd II	7
1235.878	Pt II	21
1236.362	I I	38
1237.12	Pd II	10
1237.231	I I	37
1237.892	I I	36
1239.467	Ru II	47
1239 879	Ru II	47
1239.961	Au III	11
1241.05	Bi II	1
1241.81	Hg III	3
1242.933	Sn II	4
1243.632	Sn III	7
1244.756	Xe II	1
1245.92	Pd II	10
1246.00	Tl II	15
*1246.887	Ru II	26, 47
1248.600	Pt II	37
1249.774	Ru II	47
1250.199	Xe I	3
1250.340	Ru II	47
1250.45	Pb III	5
1250.559	I II	39
1250.826	I I	34
1251.335	I I	33
1251.384	Sn III	2
1251.582	Ru II	47
1254.59	Pd II	6
1256.00	Cd II	12
1257.443	Ru II	47
1259.153	I I	32
1259.510	I I	31
1259.916	Sn III	5
1260.817	Ru II	47
1261.269	I I	12
1264.726	Ru II	
1266.78	Pb III	5
1267.27	Pd II	9
1267.569	I I	11
1267.596	I I	29
1269.62	Pd II	6
1269.78	Hg III	2
1273.344	Ru II	
1273.60	Pd II	8
1274.359	Mo III	1
1274.53	Pb III	5
1274.78	Te II	1
1275.255	I I	11
1275.424	I II	38
1275.596	I II	3
1277.190	I II	4
1278.401	Mo III	1
1278.514	Au III	12
1278.543	Ru II	
1279.41	Pb III	3
1280.49	In II	7
*1280.80	Hg III	2, 4
1283.808	Sn V	6
Vac		
1285.302	Au III	7
1285.782	I II	2
1286.084	I II	3
1288.100	Mo III	1
1288.278	Mo III	2
1289.395	I I	28
1290.886	Sn II	4
1291.143	I I	27
1294.357	Sn V	5
1295.560	Xe I	2
1296.36	Sb II	5
1296.416	I II	2
1296.43	Cd II	12
1300.335	I I	26
*1301.010P	Hg I	4, 5
*1302.199	Sn V	4, 4
1302.983	I I	25
1305.305	Pt II	9
1305.60	Hg III	4
1305.970	Sn III	5
1306.69	Sb III	1
1307.50	Tl II	14
1307.950	Hg II	5
1308.10	Pb III	3
1308.50	Tl II	11
1310.20	Tl II	14
1312.262	Sn II	4
1313.432	I I	23
1313.947	I I	22
1314.547	Sn IV	1
1314.61	Pd II	7
1314.825	Au III	7
1315.23	Rh II	12
1315.57	Pd II	2
1316.573	Ru II	114
1317.54	Sb II	4
1317.542	I I	21
1318.597	Mo IV	
1320.05	Pd II	4
1321.04	Hg III	2
1321.71	Tl II	2
1321.733	Hg II	5
1323.22	Hg III	3
1324.92	Te II	2
1325.46	Bi II	2
1326.36	Hg III	5
1326.50	Cd II	11
1326.84	Bi III	3
1327.345	Sn III	5
1327.39	Sb II	6
1329.34	Pd II	6
1329.47	Bi II	4
1330.189	I I	19
1330.40	Tl II	13
1330.77	Hg III	2
1331.65	Pb II	6
1331.759	Hg II	5
1332.79	Rh II	11
1334.699	Sn III	5
1335.08	Hg III	3
1335.20	Pb II	4
1335.238	I I	51
1336.163	Mo IV	
*1336.478§§	I I	18, 50
*1336.517§	I II	2
Vac		
1336.696	Mo IV	
1336.700	Au III	7
1338.377	Mo IV	
1339.903	I I	49
1339.939	Mo IV	
1340.709	I I	17
1341.264	I I	48
1341.348	Mo IV	
1341.660	Au III	65
1342.13	Rh II	11
1342.757	Mo IV	
1343.626	I I	46
1344.128	Mo IV	
1346.007	Mo IV	
1346.049	Sn III	25
1346.12	Bi III	2
1347.652	Sn III	15
1348.37	Pb II	5
1348.385	Ru II	
1348.873	Au III	25
1348.903	I I	45
1349.161	Pt II	20
1349.47	Rh II	9
1349.82	Sb II	5
1350.07	Bi II	4
1350.206	I I	43
1350.302	Au III	7
1350.709	Mo IV	
1351.10	Rh II	9
1351.259	Mo IV	
1352.825	Mo IV	
1352.93	Hg III	5
1353.08	Cd II	10
1355.099	I I	16
1355.542	I I	41
1355.598	Au III	65
1355.995	Mo IV	
1356.109	Au III	29
1357.971	I I	15
1358.01	Sb II	5
1358.11	Rh II	12
1358.60	Rh II	12
1360.46	Hg III	5
1360.965	I I	14
1361.111	I I	39
1361.307	Hg II	5
1363.76	Pd II	4
1365.372	Au III	6
1365.58	Pd II	5
1365.80	Pd II	5
1366.506	I I	36
1367.149	Au III	9
1367.714	I I	13
1367.76	Pd II	1
1368.217	I I	35
1369.362	Pt II	8
1369.712	Sn III	6
1370.48	Cd IV	10
1370.91	Cd II	11
1371.65	Cd II	11
1372.61	Bi II	3
1372.80	Sb II	4
1373.52	Tl II	21
1374.84	Te II	2
1374.878	Pt II	19

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I A Vac	Spectrum	Multiplet No.
1374.90	Sb II	6
1374.92	Pd II	3
1377.708	Au III	40
1377.83	Hg III	3
1378.655	Au III	7
1378.96	Hg III	3
1379.951	Au III	24
1380.475	Pt II	11
1380.498	Au III	28
1380.501	I I	37
1381.338	Au III	64
1382.284	I I	34
1383.19	Hg III	4
1383.225	I I	12
1384.613	Mo IV	
1384 67	Sb II	2
1385.763	Au III	10
1386.737	Sn III	5
1387.212	Mo IV	
1389.388	Au III	27
1389.875	Pt II	7
1390.750	I I	11
1391.100	Sn II	9
1391.441	Au III	23
1391.88	Tl II	12
1392.898	I I	31
1393.516	Sn II	9
1393.670	Mo IV	
1393.92	Bi II	3
1395.971	Au III	55
1397.46	Pd II	3
1397.65	Cd IV	10
1398.97	Sb II	5
1399.01	La III	5
1399.097	Mo V	18
1400.014	I I	30
1400.454	Sn II	3
1402.236	Pt II	6
1402.619P	Hg I	3
1402.878	Au III	77
1403.08	In III	5
1403.59	Pd II	1
1403.68	Cd IV	10
1404.11	Cd II	10
1404.18	Sb III	1
1405.17	Au II	7
1406.48	Pb III	4
1406.562	Mo IV	
1407.79	Sb II	5
1408.34	Rh II	7
1409.472	Au III	22
1410.613	Sn III	5
1412.180	I I	11
1412.206	Ru II	172
*1412.74	Rh II	8, 10
1413.017	Ru II	106
1413.779	Au III	7
1414.247	Au III	56
1414.427	Hg II	4
1416.28	Cd III	13
1417.111	Au III	7
1417.368	Au III	39
1418.89	Cd IV	9
1420.606	Ru II	106
1421.364	I I	10

I A Vac	Spectrum	Multiplet No.
1[illegible].333	Bi III	1
1423.516	Bi III	1
1424.934	Ru II	172
1425.490	I I	9
1427.393	Au III	26
1428.751	Ru II	106
1428.907	Au III	38
1429.524	Pt II	5
1429.539	I I	28
1429.57	Sb III	1
1430.037	Au III	63
1433.344	Au III	43
1433.96	Pb II	3
1434.85	In III	4
1435.784	Au III	62
1436.088	Au III	37
1436.309	Pt II	10
1436.45	Sb II	2
1436.83	Bi II	1
1437.29	Pd II	1
1437.519	Sn IV	1
1438.11	Sb II	2
1439.100	Au III	7
1440.514	Ru II	25
1440.820	Ru II	19
1440.838	Mo IV	
1441.173	Au III	76
1442.147	Ru II	39
1444.144	Ru II	106
1445.491	Ru II	20
1445.552	Ru II	138
1446.260	I I	25
1446.334	Au III	74
1446.701	Au III	25
1447.55	Cd III	18
1447.94	Bi II	4
1448.393	Au III	7
1449.625	Pd III	71
1449.773	Sn III	6
1450.177	Ru II	138
1451.224	Ru II	21
1451.56	Rn I	1
1453.179	I I	24
1453.25	Pd II	1
1454.927	Au III	8
1455.11	Bi II	2
1455.74	Cd III	17
1456.271	Mo V	20
1457.389	I I	8
1457.470	I I	7
1457.981	I I	6
1458.491	Ru II	138
1458.721	Ru II	138
1458.794	I I	5
1459.028	Ru II	91
1459.145	I I	23
1461.00	Bi III	1
1461.699	Ru II	113
1462.14	Bi II	4
1462.26	La III	5
1463.215	Ru II	
1463.515	Ru II	21
1464.692	Au III	53
1464.855	Ru II	20
1465.828	I I	20

I A Vac	Spectrum	Multiplet No.
1466.039	Ru II	137
1466.673	I II	36
1467.127	Ru II	138
1467.33	Hg III	4
1467.723	Ru II	23
1467.933	Ru II	19
1467.977	Ru II	18
1468.660	Ru II	23
1468.909	Ru II	24
*1468.97	Au II	3, 7
1469.39	Cd I	5
1469.621‡	Xe I	1
1469.941	Ru II	21
*1471.10	Rh II	24
1471.220	Ru II	138
1471.281	Au III	42
1472.717	Ru II	19
1473.151	Ru II	19
1473.279	Au III	9
1474.707	Au III	52
1475.008	Sn II	3
1475.187	Mo V	12
1475.361	Ru II	137
1476.859	Mo IV	
1477.025	Ru II	154
1477.632	Ru II	24
1478.021	Ru II	20
1479.242	Ru II	17
1481.066	Au III	73
1481.435	Ru II	18
1482.823	Pt II	43
1484.035	Ru II	21
1485.918	I I	4
1486.49	Au II	7
1486.93	Bi II	2
1486.957	Ru II	15
1487.133	Au III	6
1487.18	Mo V	11
1487.70	In III	5
1487.906	Au III	8
1488.618	Ru II	38
1488.855	Ru II	17
1489.106	Sn II	3
1489.136	Ru II	19
1489.446	Au III	32
1489.734	Ru II	19
1490.50	Tl II	11
1490.707	Ru II	
1491.224	Ru II	21
1492.888	I I	17
1493.40	Rh II	7
1494.14	In III	5
1494.524	Ru II	19
1494.724	Pt II	42
1498.289	Ru II	20
1498.53	Sb II	3
1499.30	Tl II	10
1499.380	Pt II	41
1500.334	Au III	5
1500.74	Rh II	23
1502.441	Au III	20
1502.50	Bi II	4
1502.802	Ru II	19
1503.401	Ru II	19
1503.716	Au III	41

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I A	Spectrum	Multiplet No.
Vac		
1504.18	Sb II	2
1505.240	Pt II	4
1506.279	Pt II	
1506.515	Ru II	19
1507.041	I I	3
1507.37	Ag I	7
*1507.429	Ru II	15, 37
1507.82	Tl II	20
1509.288	Pt II	40
1509.432	Ru II	13
1512.325	Ru II	17
1512.42	Pb II	1
1512.483	Ru II	59
1513.26	Sb II	2
1513.92	Cd IV	10
1514.26	Cd II	9
1514.323	I I	15
1514.678	I I	3
1515.63	Ag I	6
*1516.256	Ru II	21, 22
1517.185	Pd III	136
1517.900	Sn II	8
1518.047	I I	14
1518.758	Mo V	21
1520.142	Sn II	11
1520.406	Ru II	20
1520.57	Bi II	2
1521.238	Ru II	16
1521.407	Mo V	21
1523.408	Ru II	17
1524.35	Sb II	10
1524.725	Pt II	44
1524.937	Ru II	14
1526.252	Pd III	137
1526.448	I I	13
1526.85	Cd I	4
1527.40	Hg III	5
1527.44	Mo V	17
1527.813	Ru II	17
1528.734	Mo V	19
1529.30	Cd III	17
1530.190	Pt II	2
1530.21	In III	4
1530.415	Ru II	22
1530.762	Ru II	11
1530.91	Rh II	4
1532.74	Sb I	6
1532.95	In III	3
1533.17	Bi II	3
1533.435	Ru II	12
1534.092	Pd III	136
1534.860	Ru II	17
1535.308	Pd III	70
1535.426	Ru II	16
1536.77	Bi II	4
1537.806	Ru II	37
1538.06	Bi II	3
1538.624	Ru II	16
1538.702	Mo V	11
1541.978	Au III	72
1542.188	Ru II	17
1542.293	Ru II	37
1542.74	Rh II	6
1543.042	Ru II	37
1544.414	Ru II	11
Vac		
1544.616	Mo V	17
1545.152	Ru II	35
1545.17	Cd III	16
1545.79	Cd IV	9
1545.957	Pd III	136
1545.961	Ru II	59
1546.063	Mo V	17
1547.57	Cd III	12
1547.62	Cd IV	9
1547.756	Ru II	16
1548.473	Au III	75
1548.58	Ag I	5
1548.679	Ru II	58
1550.45	Cd III	24
1550.740	Ru II	58
1553.1	Pb III	1
1554.00	Sb II	9
1554.580	Au III	21
*1554.877	Sn II	8
1555.10	Rh II	22
1556.817	Mo V	17
1560.998	Ru II	46
1561.58	Tl II	10
1562.607	Ru II	14
1563.48	Rh II	4
1563.67	Bi II	5
*1563.928	Ru II	8, 37
1565.202	Pd III	71
1565.512	Sb II	2
1566.128	Ru II	8
1567.308	Ru II	11
*1567.512	Au III	19, 21
1568.57	Tl II	10
1570.104	Ru II	12
1570.365	Sn III	14
1570.371	Ru II	74
1570.41	Rh II	6
1571.58	Cd II	9
1572.089	Ru II	35
1572.69	Cd IV	9
1572.96	Mo V	21
1573.42	Cd II	9
1573.70	Bi II	3
1574.02	Ag I	5
1574.337	Ru II	8
1574.424	Sn II	8
1574.680	Mo V	17
1574.855	Au III	6
1575.819	Mo V	21
1575.91	Rh II	5
1576.09	Sb II	1
1577.573	Ru II	35
1578.728	Ru II	36
1579.413	Au III	37
1579.578	Ru II	7
1579.741	Pd III	70
1581.257	Mo V	10
1581.328	Ru II	65
1581.35	Sb II	1
1581.636	Ru II	11
1582.57	Rh II	6
1582.610	I I	2
1582.652	Ru II	57
1583.17	Cd II	8
1583.819	Ru II	58
Vac		
1584.00	Rh II	17
1584.074	Au III	18
1584.160	Pd III	71
1584.256	Ru II	36
1584.57	Sb II	8
1585.033	Pd III	88
1585.040	Ru II	56
1585.740	Ru II	46
1585.965	Ru II	58
1586.37 ‡	In II	2
1586.875	Mo V	17
1587.24	Au I	2
1589.32	Rh II	4
1589.559	Au III	16
1589.645	Ru II	7
1589.680	Au III	5
1590.19	Rh II	17
1590.370	Mo V	
1590.774	Ru II	10
1590.882	Ru II	35
1591.79	Bi II	2
1592.93	Hg III	2
1593.26	Tl II	9
1593.394	Au III	50
1593.403	Ru II	46
1593.580	I I	10
1594.35	Rh II	18
1594.398	Ru II	12
1594.603	Ru II	64
1596.482	Ru II	35
1596.688	Mo V	21
1598.23	Rh II	5
1599.309	Ru II	7
1599.44	Hg III	4
*1599.937	Ru II	8
1600.06	Rh II	6
*1600.183	Ru II	35
1600.40	Sb II	7
1600.496	Au III	35
1601.04	Cd II	23
1601.58	Bi II	5
1601.59	Cd III	6
1601.893	Pd III	89
1602.095	Ru II	8
1602.10	Rh II	6
1603.572	Ru II	46
1604.029	Ru II	81
1604.319	Pd III	89
1604.405	Ru II	8
1604.45	Rh II	5
1604.87	Cd III	11
1605.682	Mo V	22
1605.787	Ru II	9
1606.40	Bi III	1
1606.96 ‡	Sb II	1
1607.86	Rh II	4
1609.70	Bi II	4
1610.745	Pd III	80
1611.38	Bi II	3
1611.415	Ru II	46
1612.3	Sb I	
1613.685	Ru II	11
1615.267	Ru II	46
*1616.290	Pd III	79, 88
1617.137	Au III	17

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I A	Spectrum	Multiplet No.
Vac		
1617.604	I I	1
1617.663	Ru II	11
1617.761	Au III	34
1619.365	Ru II	57
1619.70	Rh II	4
1620.102	Ru II	81
1620.629	Pd III	115
1621.18	Rh II	21
1621.658	Pt II	1
1621.913	Au III	6
1622.114	Pd III	88
1622.55	Mo V	21
1623.01	Rh II	17
1623.231	Ru II	46
1623.3	Sb I	
1623.390	Ru II	65
1624.47	Rh II	4
1625.178	Ru II	8
1625.42	In III	1
1625.565	Ru II	57
1627.138	Ru II	46
1627.397	Ru II	8
1627.98	Ru III	6
1628.54	Cd III	6
1628.541	Ru II	81
1628.94	Rh II	5
1629.092	Ru II	7
*1629.116	Au III	5, 16
1632.321	Ru II	73
1632.73	Ru III	5
1632.96	Rh II	6
1633.802	Ru II	81
1634.13	Ru III	5
1634.72	Rh II	3
1634.99	Ru III	5
1635.129	Ru II	46
1635.333	Ru II	55
1635.948	Ru II	73
1637.446	Ru II	56
1637.591	Ru II	54
1637.88	Rh II	5
1638.876	Au III	6
1639.106	I I	7
1639.209	Ru II	81
1639.371	Ru II	72
1639.530	Ru II	81
1640.780	I I	5
1641.460	Ru II	8
1642.137	I I	1
1642.28	In III	3
1643.108	Mo V	24
1643.57	Sb II	1
1644.189	Au III	32
1644.671	Mo V	21
1646.59	Au I	3
1647.47	Hg III	2
1647.615	Ru II	9
1647.93	Cd II	8
1649.28	Sb II	1
1649.959 ‡	Hg II	2
1651.08	Ru III	6
1651.87	Ag I	3
1651.87	Cd III	6
1651.898	Ru II	63
1652.45	Hg III	5
Vac		
1652.733	Au III	61
1652.81	Bi II	4
1653.77	Ru III	5
1654.31	Rh II	2
1655.63	Cd III	5
1655.95	Ru III	5
1657.217	Ru II	54
1657.40	Ru III	5
1659.364	Ru II	72
1661.230	Mo V	15
1662.6	Sb I	
1662.72	Hg III	4
1663.22	Rh II	20
1664.778	Au III	32
1665.329	Sn II	8
1665.545	Mo IV	
1665.78	Au I	3
1665.845	Mo IV	
1666.654	Mo IV	
1667.480	Mo IV	
1668.098	Au III	16
1668.60	Cd II	23
1668.669	Mo V	14
*1668.76	Rh II	5
1668.948	Mo IV	
1669.29	Cd I	3
1669.51	In II	5
1670.19	Rh II	5
1671.06	Hg III	5
1671.53	Pb II	1
1672.225	Ru II	73
1673.61	Au II	2
1673.919	Au III	61
1674.04	In II	5
1674.22	Rh II	3
1674.294	Sn III	13
1675.174	I I	4
1677.90	Hg III	3
1678.15	Cd III	10
1679.58	Rh II	3
1679.620	Ru II	72
1680.41	Rh II	19
1682.15	Pb II	2
1683.821	Pd III	80
1683.985	Ru II	71
1684.16	Mo V	16
1686.161	Ru II	55
1686.691	Ru II	70
1689.838	Pd III	79
1690.29	Rh II	2
*1691.5 §	Bi II	3
1693.51	Ag III	8
1693.917	Au III	5
1697.081	Au III	36
1698.970	Au III	71
1699.419	Sn II	2
1699.442	Ru II	34
1699.735	Mo V	14
1699.84	Ru III	5
1699.990	Au III	32
1700.01	In II	6
1700.42	Ru III	6
1700.69	Au II	4
1701.080	Ru II	53
1701.50	Rh II	3
Vac		
1702.068	I I	3
1702.235	Au III	46
1702.51	In II	6
1703.29	Ru III	5
1703.37	Rh II	3
1703.562	Ru II	70
1704.330	Pd III	68
1704.765	Pt II	38
1705.299	Mo V	16
1706.34	Rh II	15
1707.16	Cd III	5
1707.508	Au III	69
1708.568	Pd III	86
1709.26	Ag I	3
1710.125	Au III	60
1710.51	Cd I	2
1714.57	Au I	8
1715.670	Au III	54
1716.367	Pd III	69
1716.697	Au III	19
1716.74	In II	5
1717.45	Sb I	
1717.820	Au III	5
1718.033	Mo V	14
1719.856	Pd III	68
1721.171	Ru II	63
1721.288	Mo V	14
1721.808	Mo V	15
1721.93	Cd III	6
1722.27	Ag III	8
1722.735	Pd III	110
1722.95	Cd III	21
1723.128	Pt II	15
1723.43	Sb I	20
1725.20	Re II	7
1725.350	Mo V	15
1725.66	Cd III	11
1725.89	Au II	4
1726.69	Rh II	15
1726.75 ‡	Pb II	1
1726.995	Mo V	
1727.04	Hg III	6
1727.281	Au III	14
1727.351	Mo V	
1727.375	Pd III	69
1728.14	Ag III	8
1731.415	Ru II	34
1731.54	Mo II	47
1731.889	Hg II	6
1732.634	Pd III	87
1733.140	Au III	52
1733.537	Ru II	71
1735.858	Pt II	3
1736.19	Sb I	5
1738.484	Au III	59
*1738.50	Hg III	3, 5
1739.00	Cd III	11
1740.114	Ru II	52
1740.27	Hg III	5
1740.47 ‡	Au II	2
1741.262	Ru II	62
1741.59	In II	5
1741.619	Pd III	68
1744.346	Au III	32
1744.45	Ru III	3

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I A	Spectrum	Multiplet No.
Vac		
1745.562	Pd III	114
1746.037	Au III	6
*1746.446	Ru II	51, 52
1747.198	Mo V	15
1747.67	Cd III	9
1748.83	In III	1
1748.973	Mo V	9
1749.29	Bi II	5
1749.58	Rh II	13
1750.14	Re II	3
1751.03	Ag III	7
1751.703	Pt II	36
1752.002	Mo V	
1752.689	Mo V	
1753.441	Ru II	33
1756.10	Au II	5
1756.802	Mo V	16
1756.917	Au III	5
1757.904	Sn II	1
1758.187	Pd III	103
1759.49	Ru III	3
1759.78	Cd II	23
1760.37	Rh II	14
1761.030	Ru II	50
1761.80	Rh II	2
1761.947	Au III	59
1762.312	Sb II	7
1762.614	Mo V	
1763.439	Mo IV	6
1764.595	Pt II	
1765.09	Rh II	15
1765.403	Pd III	78
1765.525	Ru II	51
1765.76	Sb I	18
1766.20	Ag I	4
1767.415	Au III	31
1767.767	Mo V	14
1768.42	Rh II	1
1768.70	Ag III	8
1768.82	Cd III	5
1770.83	In II	6
1771.40	Mo IV	6
1771.49	Ru III	8
1772.002	Mo V	
1772.37	Ru III	8
1773.06	Cd III	4
1773.676	Mo V	14
1774.246	Mo V	15
1774.419	Au III	70
1774.79	In II	6
1775.162	Pd III	103
1775.166	Au III	6
1775.582	Mo V	
1776.061	Ru II	50
1776.396	Au III	17
1777.01	Bi II	2
1777.086 ‡	Pt II	13
1777.270	Pt II	
1777.62	Rh II	16
1779.629	Pd III	87
1780.571	Au III	35
1780.617	Pd III	66
1780.87	Sb I	4
1781.262	Pd III	95
1781.858	Pt II	14

I A	Spectrum	Multiplet No.
Vac		
1782.548	Pd III	66
1782.758	I I	2
*1783.22	Au II	5
1783.355	Mo V	
1784.367	Pd III	124
1785.42	Rh II	16
1785.70	Ru III	8
1785.84	Cd II	22
1786.07 ‡	Rn I	1
1786.106	Au III	30
1786.420	Mo IV	6
1787.00	Ru III	8
1787.07	Rh II	1
1787.39	Bi II	4
1788.24	Sb I	16
1789.19	Cd III	4
1789.987	Pd III	94
1790.25	Ru III	8
1790.772	Pd III	87
1790.889	Mo V	14
1791.253	Ru II	51
1791.82	Bi II	2
1792.653	Au III	51
1792.76	Tl II	8
1793.31	Au II	3
1793.40	Cd III	5
1793.762	Au III	6
1795.083	Pd III	67
1795.52	Ru III	7
1795.628	Mo IV	6
1796.47	Ru III	8
1796.616	Pd III	66
1796.68	Pb II	3
1799.091	I I	2
1799.107	Pd III	103
1799.74	Rh II	16
1800.18	Sb I	19
1800.470	Ru II	33
1800.58	Au II	3
1801.04	Ru III	8
1801.435	Mo V	15
1801.982	Au III	34
1802.24	Ag III	8
1803.315	Pd III	132
1804.908	Pd III	94
1805.235	Au III	5
1805.976	Mo IV	6
1806.599	Ru II	50
1808.23	Ag III	7
1808.544	Pd III	98
1808.64	Rh II	14
1809.811	Au III	46
1811.200	Sn II	2
1811.42	Ru III	7
1811.605	Pd III	65
1811.712	Sn III	1
1811.975	Pd III	131
1812.094	Pd III	129
1812.93	Pb I	11
1813.523	Pd III	130
1814.85	Tl II	10
1815.574	Pd III	128
1815.771	Sn I	8
1818.464	Pd III	102
1819.125	Ru II	198

I A	Spectrum	Multiplet No.
Vac		
1819.274	Pd III	77
1819.521	Mo IV	6
1821.169	Au III	15
*1821.641	Mo IV	6, 6
1821.839	Pd III	66
1822.03	Pb II	3
1822.515	Pd III	103
1823.24	Au II	4
1823.41	Cd III	23
1823.71	Bi II	4
1827.70	Cd II	21
1827.86	Tl II	10
1828.83	Ag III	7
1829.50	Sb I	17
1830.063	Pd III	129
1830.311	Pd III	65
1830.380‡	I I	1
1831.753	Sn II	2
1831.753	Pd III	91
1832.067	Pd III	87
1832.144	Ru II	62
*1832.33	Ag III	8
1833.300	Pd III	120
1834.386	Pd III	85
1834.832	Pd III	87
1835.265	Pd III	132
1836.013	Ru II	49
1836.672	Pd III	92
1837.073	Pd III	85
1838.64	Ag III	7
1840.14	Ag III	14
1840.166	Pd III	94
1840.438	Pd III	85
1841.375	Ru II	198
1842.41	In III	9
1843.148	Pd III	85
1843.490	Pd III	119
1843.940	Pd III	94
1844.138	Ru II	4
1844.451	I I	1
1844.66	Cd III	6
1844.889	Au III	33
1845.020	Pd III	65
1845.368	Ru II	32
1845.700	Mo IV	
*1845.974	Ru II	6, 6
1846.127	Mo IV	
1847.473	Pd III	94
1847.73	Ag I	2
1848.768	Sn I	8
1848.833	Au III	49
1849.492P ‡	Hg I	2
1849.93	Ag III	6
1850.30	In III	3
1850.47	Ag I	2
1850.701	Mo IV	6
1851.13	Cd III	8
1851.37	Cd III	11
1851.592	Pd III	66
1852.274	Pd III	66
1855.85	Cd III	7
1856.161	Pd III	119
1856.33	Ag III	6
1856.504	Pd III	65
1856.67	Cd III	5

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I A	Spectrum	Multiplet No.
Vac		
1857.558	Pd III	123
1858.65	Re II	2
1858.91	Ag III	11
1859.206	Pd III	66
1861.799	Au III	5
1862.98	In III	9
1863.404	Ru II	69
1865.782	Pd III	93
1865.980	Mo IV	
1867.12	Ag III	11
1867.122	Pt II	27
1869.242	Hg II	8
1870.404	Pt II	15
1871.15	Sb I	3
1871.263	Pd III	85
1871.39	Tl II	9
1871.922	Au III	48
1873.197	Pd III	92
1873.45	Ag III	6
1874.08	Cd III	4
1874.629	Pd III	90
1875.469	Pd III	65
1875.564	Ru II	5
1876.415	I I	1
1877.027	Pd III	66
1877.186	Ru II	4
1877.711	Mo IV	5
1878.50	Sb II	13
1879.094	Pt II	34
1880.064	Pd III	91
1880.326	Pd III	65
1880.36	Ag III	7
1880.547	Pd III	76
1881.36	Rh II	32
1882.56	Sb I	15
1883.051	Pt II	18
1883.352	Pd III	65
1883.560	Mo IV	
1884.154	Ru II	32
*1885.559	Ru II	49, 90
1885.834	Pd III	65
1886.49	Cd III	11
1886.795	Mo IV	5
1886.978	Pd III	129
1887.398	Pd III	65
1888.045	Ru II	4
1888.7	Ra II	5
1889.516	Pt II	
1889.57	Ag III	7
1890.41	Pd I	15
1891.341	Pd III	100
1891.40	Sn I	9
1892.72	Tl II	8
1892.926	Ru II	90
1896.441	Ru II	4
1897.437	Ru II	4
1898.36	Re II	2
1899.890	Sn II	1
1900.83	Re I	14
1901.325	W II	1
1901.94	Pd I	12
1902.33 ‡	Bi II	3
1903.227	Ru II	5
1904.16	Ba II	4
1904.721	Pd III	119
Vac		
1904.76	Pb I	8
1905.74	Re I	14
*1906.378	Ru II	49
1908.64 ‡	Tl II	1
1908.7	Ra II	1
1909.36	Re I	14
1909.98	Cd III	22
1911.702	Pt II	14
1912.036	Ru II	4
1912.484	Ru II	61
1913.729	Pd III	128
1913.74	Mo II	45
1913.797	Ru II	89
1914.616	Pd III	64
1916.829	Ru II	5
1916.92	Ag III	7
1917.08	Ag III	6
1917.281	Pd III	135
1917.472	Pd III	127
1918.278	Au III	47
1918.650	Ru II	4
1919.64	Au I	5
1921.66	Pb II	1
1922.134	Mo IV	5
1922.23	Cd II	19
1922.443	Pd III	99
1922.522	Pd III	126
1923.28	Sb II	12
1923.95	Pd I	14
1924.77	Ba II	4
1925.30	Ag III	10
1925.472	Pd III	64
*1926.261	Mo IV	5, 5
*1926.770	Pd III	64, 97
1927.08	Sb I	14
1927.623	Ru II	5
1927.69	Mo II	45
1927.72	Re I	14
1929.250	Pt II	12
1929.256	Mo IV	4
1929.55	Pd I	10
1929.677	Pt II	28
1930.330	Pd III	64
1930.511	Mo IV	
1930.52	In II	4
1930.717	Ru II	5
1931.090	Pd III	109
1932.038	Au III	13
*1932.118	Ru II	89
1932.273	Mo IV	
1933.055	Ru II	4
1934.615	Ru II	4
1935.416	Au III	14
1935.866	Mo IV	
1936.25	In II	3
1937.089	Ru II	
1939.056	Ru II	5
1939.521	Ru II	5
1939.54	Mo II	46
1939.800	Pt II	14
1939.911	Ru II	3
1940.422	Ru II	67
1940.447	Pd III	76
1941.332	Pd III	107
1941.346	Ru III	2
Vac		
1941.639	Pd III	64
*1941.82	Rh II	32
1941.857	Sn III	22
1942.31	Au I	2
1942.317	Hg II	2
1943.000	Pd III	91
1943.54	Cd II	20
1943.966	Ru II	4
1944.123	Pd III	97
1944.251	Mo IV	
1944.537	Pd III	118
1945.99	Pd I	12
1946.507	Pd III	65
1948.35	W II	3
1948.71	Mo II	25
1948.792	Au III	13
1949.423	Ru II	3
1949.44	Mo II	25
*1949.515§	Mo IV	5
1949.901	Pt II	35
1950.39	Sb I	
1950.55	Mo II	45
1951.06	W II	1
1951.117	Pd III	64
1951.500	Pd III	74
1951.93	Au I	2
1952.141	Sn I	8
1954.039	Pd III	91
1954.440	Mo IV	
1955.516	Sn III	21
1956.892	Pd III	99
1957.04	Mo II	45
1957.187	Pd III	113
1957.62	Ag III	14
1958.45	Mo II	25
1958.472	Au III	67
1960.75	Pd I	9
1962.14	W II	3
1962.18	Mo II	25
1962.285	Ru II	5
1962.530	Mo IV	
1962.861	Pd III	101
1963.38	Re I	14
1965.293	Ru II	68
1965.54	Cd II	19
1966.076	Ru II	2
1966.082	Mo IV	5
1966.746	Ru II	2
1966.88	In II	10
1966.89	Ag III	9
1967.610	Ru II	5
1968.33	Pd I	18
1968.639	Pd III	64
1969.212	Mo IV	
*1969.79	Mo II	45
1971.092	Mo IV	4
1971.452	Sn I	6
1971.752	Pd III	101
1972.296	Pd III	90
1972.575	Pd III	97
1972.6	Ra II	10
1972.74	Pd I	8
1973.13 ‡	Re II	1
1973.623	Mo IV	
1973.93	Pd I	11

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I A	Spectrum	Multiplet No.
Vac		
1974.15	Rh II	40
1974.517	Mo IV	
*1974.90	Pd I	10, 16
1975.190	Pd III	118
1975.354	Pd III	113
1975.71	Rh II	31
*1975.92	Ag III	10
1976.0	Ra II	1
1976.50	Pd I	17
1976.853	Mo IV	
1977.03	Ag III	13
1977.17	Mo II	3
1977.204	Mo IV	5
1977.45	In II	3
1978.19	Au I	5
1978.91	Mo II	25
1980.703	Pd III	76
1980.882	Pd III	74
1980.939	Pd III	76
1983.737	Pt II	16
1984.06	Mo II	25
1986.718	Pd III	134
1986.874	Pd III	125
1986.89	Cd II	22
1987.97	Mo II	3
1988.26	Bi III	6
1988.426	Pd III	108
1989.35	Bi II	5
1989.631	Au III	31
1990.720	Ru II	48
1991.391	Mo IV	5
1992.35	Mo II	3
1993.20	Pd I	7
1993.845	Pd III	122
1993.956	Pd III	64
1994.32	Ag II	10
1994.669	Mo IV	5
1995.048	Ru II	68
1995.43	Cd II	16
1995.443	Pd III	91
1995.61	Re I	14
1996.550	Pd III	99
1996.853	Au III	68
1998.812	Pd III	82
1998.880	Pd III	84
1998.988	Ru II	3
*1999.101	Pd III	111, 113
1999.54	Ba II	1
2000.24	Ag III	10
Air		
2000.24	Mo II	24
Vac		
*2000.553	Pd III	90, 107
Air		
2000.59	Cd III	26
2000.68	Ag II	9
2000.81	Au II	2
2001.516	Pd III	75
2001.70	W II	3
2002.12	Mo II	23
2003.532	Re I	13
2003.827	Pd III	74
2006.58	Tl I	6
2007.00	Pd I	9

I A	Spectrum	Multiplet No.
Air		
2007.49	Cd II	18
2008.08	W II	4
2009.28	Ru III	2
2009.864	Pd III	128
2009.92	Re II	17
2010.978	Pd III	76
2011.49	Ag III	10
2011.57	Mo IV	4
2012.05	Au I	5
2013.189	Ru II	2
2013.831	Pd III	90
2014.226	Pd III	75
2014.925	Pt II	26
2015.12	Mo II	2
2015.89	Ag II	8
2016.56	Re I	13
2017.866	Re I	13
2019.55	Pd I	8
2019.82	Pd I	13
2020.32	Mo II	2
2020.75	Bi III	1
2020.99	Bi I	3
2021.15	Bi III	1
2022.013	Pd III	75
2022.27	Mo I	
2023.64	Re II	6
2024.18	Ba II	1
2024.43	Mo IV	4
2025.390	Pd III	106
2026.07	W II	4
2026.520	Pd III	64
2026.705	Pd III	100
2026.838	Ru II	2
2026.971	Hg II	4
2028.26	Cd II	17
2029.90	Rh II	31
2029.99	W II	5
2030.979	Ru II	88
2032.04	Mo II	21
2032.054	Pd III	100
2032.333	Pd III	112
2032.44	Cd II	17
2032.776	Pd III	83
2033.78	Re I	17
2034.44	Os I	3
2035.87	W II	3
2036.22	Cd II	21
2036.461	Pt II	13
2037.67	Mo II	32
2038.02	Mo II	32
2038.46	Mo II	2
2038.970	Pd III	105
2038.99	Re I	13
2039.204	Re I	13
2039.43	Ir I	5
2039.626	Ru II	88
2039.83	Cd III	15
2040.660	Sn I	6
2040.802	Pd III	112
2041.45	Mo II	22
2041.568	Pt II	17
2042.66	Mo II	66
2043.301	Ru II	66
2044.38	Mo II	22
2044.54	Au II	4

I A	Spectrum	Multiplet No.
Air		
2044.59	Ru III	2
2045.48	Mo II	22
2045.60	Cd III	20
*2045.98	Mo II	1, 32
2046.28	Os II	4
2046.94	Mo II	22
2047.561	Ru II	2
2048.03	W II	5
2048.28	Os I	9
2049.079	Re I	13
2049.111	Ru II	31
2049.38	Pt I	2
2049.38	Mo I	
2049.57	Sb I	13
2050.48	Po I	5
2052.21	Mo II	20
2052.929	Hg II	4
2053.27	Pb I	6
2053.670	W II	4
2055.68	Mo II	140
2056.29	Mo IV	4
2056.99	Ag III	9
2059.227	Pd III	74
2059.23	Mo II	21
2060.29	Mo I	
2060.33	Mo II	
2061.03	Mo IV	4
2061.168	Ag I	1
2061.25	Cd III	20
2061.633	I II	2
2061.73	Bi I	1
2062.81	Pt I	7
2063.20	Mo II	17
2063.44	Mo I	
2063.55	Os I	6
2065.110	Ru II	31
2065.57	W II	4
2065.67	Mo I	
2065.90	Ag II	9
2066.985	Pd III	128
2067.21	Os II	2
2067.36	Mo II	17
2067.52	W II	5
2067.53	Pt I	2
2067.81	Mo I	
2067.89	Re I	17
2068.20	Mo II	17
2068.33 ‡	Sb I	1
*2068.9 §	Bi II	4
2069.61	Os I	3
2069.80	Mo II	66
2069.850	Ag I	1
2069.978	Sn III	12
2070.515	Ru II	88
2070.768	Ru II	2
2070.96	Pt I	9
2071.193	W II	3
2072.89	Sn I	19
2073.08	Sn I	6
2074.31	Mo II	17
2074.546	Pd III	72
2074.581	Ru II	31
2074.70	Re I	13
2075.43	Mo II	20
2075.588	W II	7
2076.84	Mo V	1

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I A	Spectrum	Multiplet No.
Air		
2076.95	Os I	3
2078.325	W II	11
2078.455	Ru II	87
*2079.108	W II	3, 5
2079.26	In II	3
2079.967	Ru II	84
2079.97	Os I	3
2079.98	Mo II	17
2080.47	Mo II	20
2081.604	Sn IV	16
2081.67	Mo II	1
2082.09	Au II	2
2082.55	Pt I	5
2082.916	Ru II	86
2983.092	Au III	58
2083.22	Ir I	3
2083.925	Re I	13
2084.07	Mo II	20
2084.212	Sn IV	16
2084.62	Pt I	7
2084.64	Mo II	44
2085.594	Re I	11
2085.74	Ir I	6
2086.77	Mo II	17
2087.10	W I	
2087.463	Ru II	31
2087.92	Cd III	14
2088.30	Mo II	20
2088.41	Pb I	3
2088.82	Ir I	1
2089.53	Mo II	19
2090.477	W I	
2091.07	Rh II	39
2091.23	Mo II	17
2092.24	Re I	12
2092.53	Mo II	17
2092.54	Mo IV	4
2092.63	Pd I	7
2093.11	Mo II	19
2095.13	Au II	12
2095.29	Mo II	19
2096.00	Cd II	16
2096.18	Hf II	31
2096.39	Sn I	18
2096.55	Mo II	18
2097.122	Re I	12
*2097.60	Os I	10, 14
2099.14	Mo II	19
2099.85	W I	
2100.36	Mo II	140
2100.70	Mo II	19
*2100.83	Mo II	18
2101.21	Mo II	44
2101.538	W I	
2102.36	Mo II	140
2103.33	Pt I	7
2103.377	Ru II	79
2103.43	Mo II	19
2103.508	Pd III	117
2104.29	Mo I	
2105.03	Mo II	19
2105.394	W I	4
2105.87	Pd I	9
2107.322	Ru II	31
2107.452	Re I	27

I A	Spectrum	Multiplet No.
Air		
2107.6	Ra II	4
2108.04	Mo II	65
2108.74	Mo II	44
2109.23	Mo II	16
2109.31	W I	9
2109.65	Pt I	9
2109.94	Mo II	43
2110.263	Bi I	4
2110.33	W I	
2110.422	Pd III	104
2110.68	Au II	3
2111.18	Mo II	15
2111.60	Cd III	7
2111.77	Pb I	11
2113.82	Ag II	8
2113.87	Re I	27
2113.895	Ru II	31
2113.93	Sn I	7
2114.25	Re II	16
2114.43	Mo IV	4
2115.04	Pb I	11
2115.10	Mo II	16
2115.44	Mo II	43
2115.569	Pt II	33
2116.77	Mo II	31
2117.190	Ru II	31
2117.66	Os I	9
2117.96	Os I	3
2118.887	Pd III	121
2119.21	Rh II	40
2119.71	Mo II	15
2120.45	Ag II	10
2120.53	Mo II	15
2121.60	W I	4
2122.13	Mo II	43
2123.302	Pd III	116
2123.684	Pd III	73
2123.84	Os I	6
2124.09	Mo II	15
2124.39	Os I	3
2125.29	Au II	5
2125.44	Ir I	6
2125.50	Ag II	20
2125.92	Mo II	65
2126.46	Mo II	15
2126.63	Au I	2
2127.27	Mo II	43
2127.39	Sb I	2
2128.122	W I	16
2128.62	Pt I	5
2128.836	Ru II	79
2129.10	Hf II	38
2129.28	Tl I	10
2130.689	Pt II	25
2131.0	Ra II	9
2131.898	Ru II	85
2132.24	Rh II	76
2133.06	Mo II	57
2133.39	Mo II	43
2134.01	Mo II	140
2134.43	Mo II	41
2135.40 ?	Ru II	105
2136.04	Mo II	30
2138.133	W II	5
2139.29	Mo II	43

I A	Spectrum	Multiplet No.
Air		
2139.45	Mo II	29
2139.69	Sb I	12
2140.120	Ru II	1
2140.98	Mo IV	4
2142.237	Mo III	5
2142.44	Mo II	30
2142.52	Ta II	5
2142.75 ‡	Te I	
2142.81	La II	
2142.97	Re I	12
*2143.25 §	Mo II	3
*2143.251 §	Mo III	
2144.22	Pt I	
2144.244	Pt II	1
2144.305	Pd III	81
2144.408 ‡	Cd II	1
2144.86	Sb I	11
2145.60	Ag II	8
*2145.76	Ag II	19, 29
2146.43	W I	4
2147.52	Mo II	42
2147.995	Pd III	81
2148.003	Hg II	6
2148.22	Ir I	6
2148.733	Sn I	6
2149.143	Pd III	72
2150.673	Pd III	96
2150.931	Pd III	133
2151.92	Tl I	9
2152.07	Pt I	9
2153.54	Pt I	2
2154.08	In III	8
2154.42	In III	8
2154.427	Ru II	66
2154.59	Os I	9
2155.062	Cd II	19
2155.81	Ir I	1
2156.673	Re I	12
2156.74	Mo II	42
2157.08	Os I	6
2157.54	Mo I	31
2157.84	Os I	3
2158.05	Ir I	5
2158.373	Ru II	29
2158.53	Os I	9
2159.085	Au III	13
2159.98	Os I	11
2160.885	W II	
2161.89	Ag III	9
2162.34	Mo I	30
2162.88	Ir I	1
2162.96	Mo II	41
*2163.54	Mo II	41
2163.66	La II	
2163.78	Mo II	13
2163.880	II	10
2164.340	W I	9
2164.480	Ru II	30
2164.49	Os I	14
2164.85	Os II	4
2164.928	W I	16
2165.14	Pt I	2
2165.19	Mo II	84
2165.19	Os I	6
2165.80	Mo II	41

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No.
Air		
2166.316	W II	4
2166.51	Ag II	7
2166.58	Mo II	39
*2166.62	Pt I	7
2166.828	Ru II	80
2167.668	Mo III	5
2167.938	Re I	12
2168.59	Tl I	8
2169.474	W I	13
2169.9	Ra II	4
*2169.936	W II	2, 3
2169.994	Pb I	3
2170.572	Mo III	5
2170.75	Au I	8
2170.87	Ag II	25
2170.94	Mo II	41
2171.108	Mo III	4
2171.66	Ag II	8
2172.200	Au III	66
2172.21	Ir I	4
2172.95	Pd I	7
2173.550	W II	7
2174.08	Mo II	140
2174.620	W I	13
2174.713	Ru II	29
2175.245	Ir I	1
2175.40	Mo II	42
2175.60	Pb I	12
2175.81	Sb I	1
2175.842	W I	9
2176.206	Re I	12
2177.08	Rh II	50
2177.3	Ra II	10
2177.33	Bi I	3
*2177.546	W II	6, 17
2177.85	Re II	19
2178.171	Ir I	1
2178.29	Pd I	6
2178.474	W I	13
2179.19	Sb I	12
*2179.366§	Mo III	5
2179.764	W I	16
2180.063	Ru II	80
2180.48	Mo I	31
2180.49	Pt I	5
2181.254	Ru II	83
2181.36	Mo II	41
2181.622	Ru II	79
2181.77	Re II	11
2182.081	Ru II	45
2182.225	W II	3
2182.72	Ta II	2
2182.76	Mo II	63
2182.76	Pt I	7
2182.90	W I	16
2183.72	Re I	27
2184.077	Mo I	
2184.108	Au III	13
2184.36	Mo II	29
2184.46	Mo II	39
2184.536	Ru II	1
*2184.59	Mo II	41
*2184.68	Os I	3, 14
2184.73	Mo II	29
2184.89	Mo II	39
Air		
2185.42	W II	19
2186.300	Cd II	20
2186.738	W II	5
2186.76	Ag II	8
2186.9	Bi II	5
2187.794	Cd II	15
2187.87	La II	1
2188.04	Mo II	12
2188.81	Au II	10
2188.96	Mo II	12
2188.966	Au III	31
2188.97	Os I	9
*2189.19 §	W II	7
2189.364	W II	2
2189.40	Mo II	64
2189.494	W II	3
2189.62	Pb I	9
2189.850	W II	
2190.00	Mo II	40
2190.16	Pt I	5
2190.315	Pt II	32
2190.444	Mo III	5
2190.90	Sb II	11
2190.91	Rh II	37
2191.109	Mo I	
2191.64	Ir I	5
2191.923	Ru II	30
2192.36	W I	
*2192.78	Rh II	30, 50
2192.889	Ru II	30
*2193.440	W II	4, 11
*2193.542	W II	8, 14
2194.39	Os II	2
2194.428	Ru I	30
2194.494	Sn I	7
2194.515	W II	1
2194.557	Cd II	7
*2194.94	Mo II	14, 39
2194.970	Ru II	45
2195.744	Ir I	2
2196.05	Ta II	4
2196.26	Mo I	
2197.080	W I	
2197.27	Mo II	13
2197.412	Pd III	72
2197.48	Mo II	64
2197.8	Ra II	8
*2198.15	Mo II	37
2198.367	W I	
2198.676	W II	8
2198.79	Rh II	50
2198.854	Ir I	5
2198.914	Re I	12
2198.915	W I	9
2199.165	Ru II	80
2199.300	W I	13
2199.337	Sn I	5
2199.52	In III	12
2199.96	Rh II	29
*2200.25	Mo II	29, 121
*2200.99	Mo II	40, 124
2201.02	Rh II	28
2201.32	Sb I	33
*2201.32	Au II	3, 4
2201.504	W I	4
Air		
2201.736	Ru II	80
2201.93	Os I	10
2202.09	Ag II	18
2202.20	Pt I	5
2202.49	Os I	2
2202.577	Pt II	52
2202.71	Rh II	49
2202.856	W I	16
2202.88	Mo I	
2203.5	Pb II	2
2203.64	Ag II	20
2203.837	Ru II	45
2203.91	Os I	14
2203.986	W II	
2204.482 ‡	W II	5
2205.108	Ru II	136
2205.68	Ir I	3
2205.95	Ag II	23
2206.060	Mo III	5
2206.35	Rh II	28
2206.588	W II	11
2206.84	Mo II	38
2206.922	W II	9
2206.97	Tl I	7
2207.328	Ru II	30
2207.622	Mo III	5
*2208.18 §	Mo II	160
*2208.182§	Mo III	4
2208.45	Sb I	11
2208.49	Ag II	23
2209.067	Ru II	136
2209.08	Ru I	32
2209.56	Mo II	29
2209.650	Sn I	7
2209.653	Cd II	19
2210.71	Tl I	6
*2211.013	Mo III	5, 5
2211.325	Ru II	28
2211.39	Mo II	39
2211.96	Os I	9
2212.170	W I	
2212.79	Rh II	29
2212.809	Pd III	81
2213.26	Mo II	39
2213.55	Bi III	6
2214.0	Bi II	4
2214.16	Os I	14
2214.26	Mo II	39
2214.26	Re II	1
2214.340	W I	26
2214.39	Mo II	159
2214.46	Hg III	4
2214.7	Ba II	3
2214.76	Os II	7
2214.830	W I	13
2214.964	Sn III	17
2215.626	Au II	8
2216.023	W II	3
2216.031	Ir I	1
2216.08	La III	1
2216.60	Mo II	144
2217.33	Pt I	11
2217.52	Mo II	37
2218.110	W II	
2218.552	Ru II	30

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2220.26	Mo I		2234.91	Pt I	2	2254.45	Ru II	28
2220.373	Ir I	5	2235.289	Ir I	4	2254.58	Cs II	13
2220.73	Sb I	10	2235.37	W II		2254.71	Ru I	24
2220.879	Sn IV	8	2235.440	Re I	10	2254.73	Ba II	3
2220.938	W II	10	2235.64	W II	5	2255.101	Ir I	5
2220.99	Mo II	28	2235.68	Mo II		2255.25	Rh II	48
2221.42	Rh II	82	2235.750	Ir I	5	2255.290	Mo II	83
2221.63	Mo II	39	2235.80	Re II	6	2255.53	Ru I	20
*2221.97	Rh II	56, 61	2235.836	Ru I	30	*2255.729	Re I	17, 17
2221.98	Sb I	31	2236.04	Mo II	14	2255.810	Ir I	3
2222.60	Pt I	9	2237.06	W II	20	2255.847	Os II	1
2223.188	Mo III	5	2237.443	Pb I	8	2256.07	Ru II	28
2223.574	W I	13	2237.71	Rh II	28	2256.187	Ru I	29
2223.85	Os I	6	2237.73	Ru II	196	2256.193	Re I	10
2223.924	Mo I		2237.82	Tl I	5	2256.25	Ru II	60
2224.64	Mo II	14	2237.864	Mo I		2256.67	Ru II	134
2224.710	Hg II	8	2238.35	Ru I	14	2256.77	La II	2
2224.93	Sb I	9	2238.42	Mo II	37	2256.85	W II	13
2225.27	Os II	6	2238.603	Re I	21	2256.982	Mo II	133
2225.437	Mo I	2	2238.818	Ir I	1	*2257.12	Ru II	135, 171
2225.44	Os I	2	2239.42	Mo II	63	2257.24	Rh II	27
2225.544	W I	9	2239.86	Cd I	12	2257.82	Cs II	7
2225.882	W II	1	2240.164	Au II	12	2258.27	Rh II	37
2226.02	Ag II	19	2240.993	Pt II	47	2258.856	Ir I	2
2226.06	Mo II	63	2241.075	Ru I	20	2259.529	Ru I	19
2226.418	Re I	10	2241.080	W II	11	2260.03	Ru II	78
2226.55	Rh II	30	2241.191	Mo III	5	2260.07	Mo II	13
2226.56	W II	5	2241.282	W I	23	2260.10	W I	4
2226.77	W II		2241.62	Os I	6	2260.260	Hg II	7
2226.83	Os I	2	2242.10	Os I	20	2261.26	In III	12
2226.927	Mo III	5	2243.23	Ru I	26	2261.78	Ru II	153
2227.640	Ru I	28	2243.27	Ru II	28	2261.981	Mo II	133
2227.85	Ta II	3	2243.44	Ag II	34	2262.07	Mo I	
2227.98	W I	13	2244.375	Hg III	5	2262.253	Hg II	4
*2227.98 §	Os I	2	2244.93	Pt I	9	2262.51	Sb I	30
*2227.98 §	Os II	3	2245.19	W II	4	2263.43	Rh II	28
2228.240	Bi I	1	2245.518	Pt II	13	2263.51	Ru II	44
2228.88	W II		2245.61	Ba II	3	2263.53	W II	21
2228.880	Au II	11	2245.95	Mo I		2263.620	Au II	14
2229.127	Sn IV	8	2246.048	Sn I	4	2263.880	W I	9
2229.196	W I	9	2246.139	Mo I		2264.178	W II	21
2229.284	Ru II	45	2246.14	Ag II	22	2264.33	Pd II	15
2229.53	Ag II	16	2246.38	Rh II	46	2264.393	Re I	10
2229.620	W II	2	2246.43 ‡	Ag II	7	2264.607	Ir I	5
2230.07	Mo II		2246.77	W I		2264.696	Ru I	26
2230.542	Mo III	4	*2246.884	Pb I	8, 10	2265.018	Cd II	1
2230.626	Bi I	2	2246.980	Mo II	83	2265.338	W II	17
2230.734	W I		2248.270	W II	4	2266.12	W II	4
2231.08	Mo II	109	2248.560	Au II	14	2266.224	Mo II	37
2231.080	W II	20	2248.74	Ag II	8	2266.25	W II	12
2231.18	Au II	11	*2248.750§	W II	1	2266.26	In III	12
2231.230	W II		2249.890	W II		2266.331	Ir I	2
2231.49	Mo II	12	2249.934	Mo I		2267.46	Cd I	12
2231.59	Pd II	15	2250.730	W II	3	2267.61	Cs II	14
2231.657	Ir I	3	*2251.14 §	W II	4	2268.14	Ru II	43
2231.725	Sn I	6	2251.523	Pt II	45	2268.28	Os I	9
2232.08	Ru I	30	2251.918	Pt II	46	2268.34	Ru I	31
2232.18	In III	11	2252.780	Hg II	8	2268.913	Sn I	3
2232.248	Ir I	2	2253.182	Mo III	4	*2269.708§	Mo II	11
2232.44	Mo II	12	2253.45	Ag II	22	*2269.708§	Mo III	4
2232.471	Ir I	3	2253.65	Ru I	25	2270.17	Os I	9
2232.778	Mo I		2253.910	W I	1	*2270.232	W II	2, 10
2232.98	Rh II	49	2253.947	Pb I	10	2270.322	Ru I	30
2233.110	Pt II	52	2254.146	Mo II	13	2271.300	Re I	24
2234.61	Os I	9	2254.28	Pd I	5	2271.718	Pt II	50

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I A	Spectrum	Multiplet No.
Air		
2272.091	Ru I	18
2272.347	Mo III	4
2273.240	Mo II	
2273.83	Cs II	15
2274.618	Re I	10
2275.00	Ru II	43
2275.25	Re II	1
2275.32	Ag II	23
2276.14	Ru II	43
2276.198	Mo II	133
2276.20	Rh II	37
2276.43	Ru II	44
2276.43	Os I	11
2276.578	Bi I	2
2276.89	Rh II	47
2277.16	Hf II	6
2277.24	Rh II	56
2277.43	Ag II	20
2277.518	Au II	12
2277.583	W I	1
2278.108	W II	7
2278.196	In I	7
2278.198	Ru I	19
2278.44	Os I	2
2279.496	Mo I	
2279.584	Ru I	
2280.03	Ag II	15
2281.620	Re I	8
2281.72	Ru II	43
2281.907	Ir I	7
2282.202	W II	21
2282.26	Os II	1
2282.87	Rh II	29
*2283.02	Ru II	209
2283.300	Au II	5
2283.67	Os I	6
2284.07	Rh II	81
2285.00	Rh II	56
2285.17	W I	16
2285.382	Ru I	16
2285.451	Tc II	2
2286.517	Os I	20
2286.681	Sn I	5
2287.05	Ru III	4
2287.499	Pt II	49
2287.506	Re I	6
2287.695	Ru I	19
2288.018‡	Cd I	1
2288.197	Pt II	13
2288.24	Rh II	49
2288.80	Ru II	44
2288.98	Sb I	10
2289.890	Mo II	28
2290.04	Rh II	28
2290.110	Cd II	17
*2290.311	Mo II	28, 36
2290.870	Mo II	56
2291.400	Au II	9
2291.82	Ru II	43
2292.333	Ru I	20
2293.044	Ru I	15
2293.44	Sb I	9
2293.54	Os II	8
2294.054	Ru I	73
*2294.12	Rh II	47
Air		
2294.486	Re I	6
2294.494	W I	16
2294.55	W II	4
2294.66	Rh II	37
2294.970	Mo III	3
2295.084	Ir I	3
2295.09	Ru II	181
2295.314	Mo III	4
*2296.18	Ru II	104, 104
2296.09	Ir I	5
2296.53 ‡	Pd II	14
2296.926	Re I	24
2297.75	La III	1
2297.97	Ru II	104
2298.04	Tl II	8
2298.080	Tc II	2
*2298.26	Rh II	38, 49
2298.45	Ru II	104
2298.63	Ru II	43
2299.289	Ru I	19
2299.526	Ir I	6
2300.499	Ir I	2
2300.90	In III	11
2301.642	W II	12
2301.88	Os I	9
2302.533	Ru I	20
*2302.992	Re I	8, 9
2303.47	Rh II	27
2303.819	W II	2
2304.215	Ir I	5
2304.248	Ba II	2
*2304.261 §	Mo II	132
*2304.262 §	Mo III	4
2304.32	Mo I	
2304.38	Os I	14
*2304.63 §	Ru II	44
*2304.630 §	Ru III	4
2304.689	Au II	13
2304.82	Ru II	43
2305.466	Ir I	3
2305.517	Ru I	19
*2305.61	Ru II	44, 104
2305.673	Mo II	35
*2305.95	Rh II	74
2306.049	In II	1
*2306.46	Sb I	28, 33
2306.540	Re I	8
2306.593	W I	13
2306.61	Cd I	12
2306.918	W II	13
2306.990	Mo II	11
2307.994	Mo II	11
2308.63	Ru II	170
2309.018	W I	16
2309.14	Ru II	28
2309.38	Ru II	209
2309.40	Os I	20
2309.485	Mo II	132
2309.52	Ru II	101
2309.56	Ag I	12
2310.957	Pt II	12
2311.47	Sb I	1
2312.01	Ru II	170
2312.60	Ag I	11
*2312.65	Rh II	47, 75
Air		
2312.766	Cd II	7
2313.154	Mo II	56
2313.170	W I	1
2313.37	Ru II	44
2313.75	Os II	4
2314.02	Ru II	104
2314.174	W I	16
2314.551	Au II	13
2314.78	Ru II	104
2315.022	W II	3
2315.16	Os II	8
2315.378	Ir I	1
2315.89	Sb I	32
*2315.90	Ru II	44, 170
2315.90	Tl I	4
2315.956	Re I	28
2317.05	Ag II	7
2317.23	Sn I	17
2317.784	Ru I	20
2317.82	La II	17
2317.914	Mo III	4
2318.46	Ru II	153
2318.905	Ru I	23
2319.19	Re I	29
2319.28	Ru II	133
2319.44	La II	3
2320.090	Mo II	143
2320.162	Re I	29
2320.23	Ru I	19
2320.29	Ag II	14
2320.699	Ru I	19
2321.074	Cd II	7
2321.629	W I	9
*2321.66	Ru II	27, 44
2321.86	Rh II	48
2322.009	Ru I	19
2322.267	Au III	30
2322.48	Hf II	5
2322.490	Re I	9
2322.57	Ru II	153
2322.58	Rh I	9
2322.83	Ru II	82
2323.26	Hf II	14
2323.931	Mo III	4
2323.96	Mo II	121
2324.24	Os I	2
2324.68	Ag II	7
2324.86	Rh II	88
2324.876	Mo II	56
2324.89	Hf II	14
2325.12	Ag II	22
2325.65	Os II	6
2325.75	La II	10
2325.952	Ru I	19
2326.091	W II	5
2326.564	W I	16
2326.698	W I	9
2327.67	Rh II	68
2328.16	Ru II	193
2328.314	W II	2
2328.33	Ru II	101
2328.664	Re I	16
*2329.02	Ru II	27
2329.27	Cd I	12
2329.708	Mo II	81

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I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2330.14	Ru II	27	2349.391	Re I	26	2369.83	Ru II	151
2330.929	Mo III	3	2349.69	Rh II	69	2370.169	Ru I	22
2331.06	Ru III	4	2350.120	Mo II	81	2370.250	Mo II	62
2331.292	W I	18	2350.242	Os II	4	2370.410	Mo II	35
2331.40	Ag II	6	2350.35	Rh II	29	*2370.699	Os I	5, 10
2331.43	Ru I	20	2350.53	Ru II	153	2370.76	Re II	6
2331.770	Ru I	27	2351.21	Hf II	4	2371.188	Os I	16
2332.00	Ta II	5	2351.33	Ru I	20	2371.500	Re I	16
2332.131	Mo II	11	2351.579	Os I	20	2371.58	Mo II	81
2332.445	Pb I	9	2351.732	Os I	17	*2371.84	Ru II	152
2333.298	Ir I	3	2352.069	Re I	16	2371.91	Ru II	102
2333.30	Rh II	27	2352.44	Rh II	27	*2372.642	Mo II	59
2333.57	Ru II	27	2352.58	Au I	5	2372.774	Ir I	1
2333.770	W II	2	2353.006	Os I	16	2372.921	Os I	8
2333.839	Ir I	2	2353.95	Re I	26	2373.67	Sb I	30
2333.89	Ru II	42	2354.08	Re I	27	*2373.96	Ru II	98, 131
2334.33	Re I	16	*2354.186	Mo II	11	2374.154	W I	
2334.505	Ir I	2	2354.238	Hg III	5	2374.337	Os I	5
2334.77 ‡	Rh II	27	*2354.24	Ru II	60, 195	2374.454	W II	18
2334.80	Sn I	4	2354.837	Sn I	4	2374.468	W I	12
2334.96	Ru II	43	2355.022	Mo II	28	2374.527	Os I	22
2335.269	Ba II	2	2355.284	Os II	3	2374.900	Mo II	60
2335.730	Re I	21	2355.309	Mo II	62	2375.02	Ag I	10
2335.738	Ru I	22	2355.460	Mo II	28	2375.073	Re I	23
2335.88	Ru II	103	2355.63	Ru II	103	2375.272	Ru I	20
2336.38	Ru II	103	2355.97	Ru II	132	2375.63	Ru II	42
2336.803	Os II	2	2356.496	Re I	21	2375.815	Re I	26
2336.83	Ru II		2356.552	Ir I	3	2376.23	Ru II	216
*2336.84	Rh II	57, 87	2357.09	Pt I	4	2376.28	Au I	4
2337.432	Mo II	11	2357.267	Os I	16	2376.820	Cd II	16
2337.84	Ru II	44	2357.92	Ru II	42	2377.03	Os I	14
2337.953	Re I	21	2357.92	Ag II	6	2377.275	Ir I	6
2338.482	Mo II	11	2358.165	Ir I	4	2377.276	Pt II	12
2338.650	Os I	2	2358.79	Ru II	42	2377.618	Os I	17
2338.74	Ru II	169	2358.87	Ag II	31	*2377.983	Ir I	6
2339.10	Ru II	60	2359.10	Ru II	103	2378.151	Os I	10
2339.160	W II	12	2359.18	Rh II	57	2378.316	Hg I	12
2339.92	Ru II	169	2359.755	Mo III	3	2378.746	Os I	18
2340.063	Au II	13	2360.093	Ru I	19	2379.379	Ir I	4
2340.199	In I	6	2360.61	Ru II	192	2379.38	La III	1
2340.41	Mo II	61	2360.730	Ir I	7	2379.393	Os I	13
2340.51	Ru II	102	2361.92	Rh I	6	2379.58	Tl I	3
2340.696	Ru I	20	2361.96	Rh II	60	2379.60	Ru II	100
*2341.06	Ru II	27, 153	2362.20	Ag II	27	2379.84	Ru II	27
2341.368	W II	4	*2362.411	Os I	2, 11	2380.008	Mo II	35
2341.57	Mo II	11	2362.771	Os I	2	2380.30	Hf II	14
2341.949	Os I	17	2363.042	Ir I	2	2380.72	Sn I	3
2342.02	Ru I	19	2364.01	Ag II	28	2380.823	Os I	8
2342.72	Ru I	16	2364.23	Ru II	132	2381.136	Mo III	3
2342.85	Ru II	42	2364.26	Ta II	5	2381.136	Re I	21
2343.176	Ir I	3	2364.67	Rh II	26	2381.14	Mo II	117
2343.43	Ru II	169	2365.666	Re I	16	2381.14	Ta II	3
2344.46	Ru II	132	2365.90	Re I	8	2381.480	Mo II	82
2344.84	Ru II		2366.105	Mo II	28	2381.55	Ta II	33
2344.89	Rh II	27	2366.743	Ru I	123	2381.622	Ir I	2
2345.282	Re I	18	2366.88	Rh II	46	2381.99	Ru II	42
2345.770	Os I	6	2367.028	Mo II	81	2382.403	Au III	45
2346.38	Ru II	27	2367.22	Ru II	153	2382.479	Os I	17
2346.43	Rh II	68	2367.354	Os II	3	2382.89	Rh I	5
2347.44	Hf II	14	2367.683	Re I	27	2382.990	W I	16
2347.592	Ba II	2	2368.1	Bi II	4	2383.17	Ag II	18
2347.802	Mo II	56	2368.28	Pt I	9	2383.371	Mo II	80
2348.832	Mo II	11	2369.255	Os I	16	2383.42	Ru II	27
2349.005	Mo II	81	*2369.27	Re I	21, 23	2383.59	Rh II	68
2349.338	Ru I	16	2369.73	Ra II	9	2383.64	Sb I	29

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I A	Spectrum	Multiplet No.
Air		
2384.632	Os I	8
2384.824	W I	15
2385.45	Rh II	26
2386.07	Mo II	82
2386.892	Ir I	2
2386.90	Re II	12
*2386.962 §	Mo III	3
*2386.96 §	Mo II	96
2387.09	Ta II	4
2387.292	Os I	2
2387.75	Au I	4
2387.819	Mo II	59
2387.881	Ru I	73
2388.23	Ru II	127
2388.703	Mo II	126
2388.802	Pb I	8
2389.110	Re I	8
2389.250	Mo II	77
2389.556	In I	5
2390.09	Ru II	151
2390.102	Mo II	60
2390.32	Ru II	215
2390.371	W II	6
2390.58	Ag II	28
2390.617	Ir I	5
2390.783	Mo II	
2390.890	W II	8
2391.10	Ru II	152
2391.178	Ir I	5
2391.278	Re I	16
2391.743	Mo II	81
2391.77	Ru II	102
2391.770	Os II	9
2392.327	Mo II	142
2392.425	Ru I	22
2392.43	Rh II	93
2392.86	Cs II	11
2392.932	W II	4
2392.963	Ru I	127
2393.249	Ru I	16
2393.36	Hf II	14
2393.645	Re I	27
2393.792	Pb I	7
2393.83	Hf II	2
2393.84	Ru II	98
2393.866	Os I	16
2394.292	Os I	17
2394.326	Ir I	3
2394.37	Re I	16
2395.22	Sb I	27
2395.476	W I	
2395.69	Ag III	12
2395.721	Ru I	21
2396.020	Mo II	55
2396.260	Mo II	108
2396.55	Rh II	56
2396.71	Ru II	41
2396.784	Os I	18
2396.791	Re I	16
*2396.97	Ru II	131
2397.097	W II	3
2397.31	Re I	18
2397.49	Ru II	127
2397.69	Ru II	41
2398.200	Os I	22

I A	Spectrum	Multiplet No.
Air		
2399.1..	In I	7
2399.597	Pb I	8
2399.64	La II	9
2399.750	Ru I	121
2400.62 ‡	Ta II	5
2400.71	Rh II	27
2400.80	Hf II	6
2401.02	Ru II	128
2401.127	Os I	16
2401.940	Mo II	28
2401.949	Pb I	5
2402.706	Au III	44
2402.72 ‡	Ru II	41
2403.10	Pt I	8
2403.173	Ru I	67
2403.428	Mo II	81
*2403.60 §	Mo II	79
*2403.605 §	Mo III	3
2403.853	Os I	16
2404.56	Hf II	23
2404.65	La II	25
2404.680	Mo II	95
2405.00	Ag II	26
2405.056	Re I	21
2405.118	Au III	46
2405.180	Ru I	66
2405.22	Rh II	26
2405.42	Hf II	14
2405.580	W I	4
2405.602	Re I	7
2405.689	W I	12
2406.06	Ru II	100
2407.151	Mo II	54
2407.31	Ru II	99
2407.884	Rh I	10
2407.92	Ru II	42
2408.15	Sn I	16
2408.186	Rh I	9
2408.290	Ru I	214
2408.337	Mo II	80
2408.44	Ru II	127
2408.73	Rh II	67
2409.68	Ru II	151
2410.13	Hf II	15
2410.15	Ru II	99
2410.37	Re I	16
2410.69	Rh II	47
2411.272	Mo II	55
2411.41	Ag II	8
2411.51	Ru II	127
2411.59	Ag II	29
2411.733	Pb I	7
2411.836	Mo II	79
2411.94	Rh II	60
2412.708	Mo III	3
2412.837	Mo II	54
*2413.017	Mo II	28, 79
2413.23	Ag II	7
2413.310	Ir I	4
2413.34	Hf II	30
2413.40	Ru II	168
2413.92	Ru II	129
2414.039	W I	9
2414.517	Os I	8
2414.587	Re I	24

I A	Spectrum	Multiplet No.
Air		
2414.6	Bi III	5
2414.82	Ru II	42
2415.005	Ru I	124
2415.20	Ru II	100
2415.685	W I	4
2415.72	Ru II	100
2415.84	Rh II	27
2416.182	Mo II	88
2416.96	Ru II	129
2417.367	Mo II	117
2417.41	Rh II	45
2417.69	Hf II	4
2417.964	Mo II	35
2418.106	Ir I	6
2418.694	Cd II	15
2418.72	Pd II	20
2418.96	Ru II	167
*2419.011	Mo II	78, 88
2419.205	Ru I	65
2419.404	Re I	24
2419.807	Re I	7
2420.11	Ag II	38
2420.18	Rh II	51
2420.180	Mo II	80
2420.245	Mo I	36
2420.826	Ru I	
2420.990	W II	9
2421.00	Rh II	27
2421.697	Sn I	15
*2421.730	Re I	26, 26
2421.85	Ta II	13
2422.13	Sb I	28
*2422.183 §	Mo III	3
*2422.185 §	Mo II	108
2422.574	Ru I	126
2422.84	Ru II	177
2423.071	Os II	5
2423.720	Mo II	95
2423.877	Ru I	64
2423.988	Mo II	76
2424.024	Os II	8
2424.206	W I	12
2424.43	Rh II	26
2424.49	Pd II	13
2424.56	Ru II	128
2424.871	Pt II	13
2424.970	Os I	1
2425.98	Hf II	21
2426.35	Sb I	26
2426.59	Ru II	181
2426.87	Pd II	13
2427.09	Rh II	27
2427.289	Mo II	93
2427.493	W II	3
2427.613	Ir I	4
2427.64	Ta I	21
2427.685	Rh I	11
2427.75	Ru II	99
2427.900	Os II	8
2427.95 ‡	Au I	1
2428.576	Re I	8
2429.390	Mo II	60
2429.488	Sn I	4
2429.516	Rh I	12
2429.594	Ru I	123

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I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2429.65	Ag II	28	2444.828	Ru I	161	2460.079	In I	4
2429.95	Rh II	54	2444.943	Re I	16	2460.160	W I	15
2430.272	Mo II	78	2445.43	Ru I	62	2460.18	Ru II	123
2430.40	Ru II	215	2445.51	Sb I	8	2460.49	Hf II	4
2430.80	Rh II	47	2445.56	La II		2460.55	Ra II	8
2430.94	Pd II	14	2446.17	Pd II	13	2460.59	Ru II	149
*2430.94	Ru II	127, 168	2446.188	Pb I	6	2460.73	Ru I	111
*2431.193	Os I	13, 24	2446.394	W II	6	2461.03	Rh II	26
2431.241	Ir I	1	2447.25	Hf II	6	2461.196	Re I	21
2431.51	Ru I	116	2447.439	Ru I	126	2461.417	Os I	13
*2431.607	Os I	17, 18	2447.85	Rh II	56	2461.805	Mo II	95
*2431.85	Rh II	27, 79	2447.93	Ag II	12	2462.26	Ag II	23
2431.938	Ir I	4	2447.95	Pd I	3	*2462.482	Mo II	53
2432.16	Ru II	151	2448.29	Rh II	26	2462.65	Ru II	149
2432.18	Re I	21	2448.390	W I	18	2462.69	Rh I	25
2432.71	Ta II	5	2448.835	Rh I	7	2462.793	W I	3
2432.915	Ru I	63	2448.98	Sn II	10	2462.943	Ru I	122
2433.11	Pd II	22	2449.03	Re II	15	2463.44	Rh II	55
2433.467	Sn I	4	2449.038	Rh I	30	2463.83	Ta II	17
2433.477	Ru I	71	2449.43	Hf II	15	2463.94	Hf II	23
2433.56	Hf II	33	2449.58	Ru II	223	2464.057	Hg I	9
2433.58	Ru II	191	2449.710	Re I	5	2464.19	Hf II	14
2433.970	Mo II	87	2450.11 ‡	Po I	2	2464.305	W I	8
2433.982	W I	12	2450.359	Ru I	17	2464.366	Ru I	121
2434.879	Ru I	70	2450.560	Ru I	60	2464.616	W II	8
2434.98	Ru II	99	2450.738	Os I	16	2464.699	Ru I	159
2435.32	Pd II	20	2450.88	Ru II	177	2464.76	Ru II	129
2435.51	Ru II	99	2451.23	Ru II	129	*2465.00	Ru II	190
2435.941	Mo II	55	*2451.468 §	W II	2	2465.879	Mo II	74
2435.957	W I	12	*2451.484 §	W I	3	2466.15	Rh II	86
2436.42	La II	25	2451.726	Os I	8	*2466.522	W II	2, 7
2436.55	Ru II	41	2451.83	Tl II	19	2466.671	Mo II	52
2436.69	Pt I	4	2451.996	W I	1	2466.848	W I	8
2436.86	Rh II	45	2452.73	La II	25	2466.971	Mo II	35
2437.14	La II	25	2452.807	Ir I	5	2467.302	Ir I	4
2437.43	Mo I		2453.143	Mo II	94	2467.350	Mo II	59
2437.688	Mo III	3	2453.31	Ag II	27	2467.42	Pt I	1
2437.790	Ru I	74	*2453.798	Mo II	87	2467.57	Re II	6
2437.81	Ag II	6	2453.82	Ru II	167	2467.576	Ru I	68
2438.02	La II	16	2454.926	Ru I	160	2468.023	In I	6
2438.356	Mo II	77	2454.978	W I	12	2468.42	Ta II	30
2438.42	La II	25	2455.235	Sn I	4	2468.790	Mo II	75
2438.574	Mo II	97	2455.506	W I	15	2468.898	Os II	6
2438.69	Te II	3	2455.53	Ru II	41	2469.03	Tl II	19
2439.69	Ru II		2455.609	Ir I	1	2469.17	Hf II	24
2440.05	Mo II	87	2455.71	Rh II	26	2469.25	Ru II	150
2440.08	Pt I	2	2455.83	Re II	5	2469.29	Pd II	21
2440.265	Mo II	35	2455.88	La II	11	2469.36	Re II	12
2440.335	Rh I	8	2456.18	Rh II	26	2469.733	Cd II	14
2440.80	Ru II	129	2456.279	Ru I	125	2469.77	Ru II	178
2441.47	Re I	7	2456.44	Ru II	42	2470.043	Mo II	75
2441.61	Ru II	130	2456.462	Os I	8	2470.06	Pd II	21
*2442.510	Re I	24, 30	2456.534	W I	9	2470.391	Rh I	25
2442.934	Ru I	115	2456.57	Ru II	41	2470.51	Ru II	41
2443.188	Mo II	77	2457.19	Ru II	124	2470.71	Ru I	119
2443.30	Ru II	129	2457.29	Pd II	14	2470.90	Ta II	5
*2443.69	Rh II	45, 58	2457.76	Pd II	19	2471.05	Ru II	166
2443.840	Pb I	6	2457.771	Mo II	116	2471.06	La II	25
2444.056	W I	4	2458.564	W II	12	2471.18	Pd II	19
2444.06	Rh II	86	2458.622	Ru I	112	2471.472	Rh I	10
2444.22	Ag II	37	2458.655	Mo II	52	2471.48	Ru I	157
2444.38	Ru I	124	*2458.90	Rh II	26	2471.89	Rh II	92
2444.482	Mo II	96	2459.300	W I	8	2471.90	La II	4
2444.735	Mo II	59	2459.762	Mo II	125	2471.962	Mo I	7
2444.74	Rh II	45	2459.876	W II	18	2472.09	Ru I	10

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I A	Spectrum	Multiplet No.
Air		
2472.44	La II	14
2472.506	W I	12
2472.83	Ru II	177
2473.086	Rh I	5
2473.84	Ag II	13
2473.90	Hf II	23
2474.029	Ru I	163
2474.149	W I	15
*2474.703	Mo I	8, 35
2474.76	Ru II	177
2474.846	Ru I	13
2475.122	Ir I	1
2475.32	Ta II	31
2475.395	Ru I	110
2475.50	Ra II	7
2475.63	Rh II	53
2475.89	Xe II	
2476.32	Ru I	162
2476.379	Pb I	4
2476.43	Pd I	2
2476.69	Ta II	6
2476.72	La III	3
2476.836	Os I	1
2476.869	Ru I	156
2477.17	Ru II	127
2477.25	Ag II	17
2477.26	Ru II	177
*2477.570	Mo II	75, 125
2477.796	W II	5
2478.008	Mo II	93
2478.32	Sb I	25
2478.55	Hf II	33
2478.672	Mo II	87
2478.8	La III	4
2478.93	Ru II	41
2479.239	Mo II	116
2479.75	Mo II	75
2479.85	La II	12
2480.11	Ra II	3
2480.130	W I	3
2480.193	Mo II	73
2480.298	Ru I	108
2480.41	Ag II	26
2480.44	Sb I	24
2480.81	Ru II	97
2480.955	W I	3
2481.11	Ru II	149
2481.183	Ir I	1
2481.440	W I	15
2481.546	W II	19
2481.85	Ru II	124
2481.87	Ta II	16
2481.996	Hg I	12
2482.075	Mo II	76
2482.212	W I	18
2482.566	Mo II	75
2482.710	Hg I	12
2482.73	Rh II	54
2482.78	Ru II	177
2483.333	Rh I	3
2483.34	Hf II	13
2483.383	Mo II	107
2483.392	Sn I	3
2483.815	Hg I	11
2483.920	Re I	21
Air		
2483.96	Ru II	94
2483.97	Po I	3
2484.741	W I	18
2484.752	Mo II	75
2485.82	Rh II	66
2486.244	Os II	2
2486.52	Pd II	14
2486.99	Sn II	10
*2487.15	Pt I	4
2487.331	Re I	21
2487.495	W I	12
2487.59	La II	11
2488.120	W II	19
2488.29	Rh II	26
2488.548	Os I	13
2488.57	Ru II	126
2488.780	W II	6
2488.92	Pd II	13
2489.231	W II	4
2489.280	Os II	10
2489.34	Ru II	201
2489.720	W I	8
2489.77	Ru I	107
2489.92	Ru I	54
2490.018	Mo II	86
2490.56	Po I	6
2490.79	Rh II	25
*2491.08	Ru II	150
*2491.10	Ru II	97
2491.56	Ru II	176
2491.76	Ru I	72
2491.88	Rh II	65
2492.299	Rh I	23
2492.928	W II	10
2493.68	Ru II	94
2494.022	Ru I	121
2494.48	Ru II	41
2494.682	Mo II	51
2495.264	W I	3
2495.584	Cd II	15
2495.69	Ru II	125
2495.704	Sn I	14
2496.280	Mo II	51
2496.520	Mo II	74
2496.56	Ru I	106
*2496.648§	W II	4
2496.767	Tc II	3
2496.99	Hf II	11
2497.020	Mo II	131
2497.371	Mo II	75
2497.480	W II	5
2497.680	Ru I	66
2497.80	Mo II	74
2497.866	Ru I	116
2498.088	Mo II	116
*2498.280	Mo II	27, 93
2498.41	Ru II	41
2498.58	Ru II	41
2498.81	Pd II	18
2499.253	Mo II	58
2499.692	W II	6
2499.81	Cd III	14
2500.14	Ru II	202
2500.425	Mo II	124
2500.74	Hf II	30
Air		
2500.835	Ru I	120
2501.18	La II	22
2501.48	Ru I	119
2501.721	Re I	23
2501.885	Ru I	70
2501.95	Ru II	126
2501.99	Ta II	12
2502.216	Mo II	141
*2502.30	Ru II	176, 177
2502.35	Re II	14
2502.37	Ru I	52
2502.46	Rh I	7
2502.983	Ir I	1
2503.594	Mo II	
2503.85	Rh II	25
2504.45	Ta I	26
2504.51	Ru I	11
2504.698	W I	3
2505.12	Rh II	25
2505.642	Mo II	51
2505.673	Rh I	8
2505.73	Pd II	18
2506.048	W II	
2506.25	Ru II	148
2506.42	Ru II	176
2506.63	Ag II	6
2506.684	Mo II	125
2507.00	Ru II	41
2507.45	Ta I	22
2508.270	Ru I	104
2508.67	Ru II	202
2508.991	Re I	6
2509.148	Mo II	150
2509.697	Rh I	7
2509.708	Os II	11
2509.936	Os I	18
2510.13	Ru I	158
2510.54	Sb I	7
2510.65	Rh II	25
2510.965	Ru I	177
2511.29	Mo II	
2512.69	Hf II	13
2512.81	Ru I	65
2512.873	Os I	16
2513.02	Hf II	11
2513.12	Mo II	124
2513.246	Os I	13
2513.32	Ru II	41
2513.435	W II	15
2513.950	Mo II	75
2514.45	Ru I	12
2514.603	Mo I	28
2515.044	Os I	13
2515.101	Mo II	58
*2515.27	Ru I	152
2515.32	Rh II	65
*2515.324	W II	8
2515.49	Hf II	22
2515.746	Rh I	24
2516.092	Mo II	58
2516.120	Re I	21
2516.71	Ru II	201
2516.88	Hf II	5
2517.32	Ru II	41
2517.51	Rh II	63

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No.
Air		
2517.62	Ru I	118
2518.144	W II	12
2518.41	Ru II	202
2518.43	Mo II	141
2518.53	Mo II	92
2518.70	Cd I	11
2518.700	Mo II	107
2519.20	Ru II	111
2519.22	La II	11
2519.444	W II	13
2519.78	Ta I	35
2519.874	W I	
2520.009	Re I	5
2520.392	Mo II	73
2520.455	W I	23
2520.52	Rh II	25
2520.82	Ru II	96
2521.059	Mo II	104
2521.323	W I	15
2521.371	In I	5
2521.61	Ru I	176
2521.683	Mo II	73
2522.039	W II	4
2522.590	Mo II	107
2522.84	Mo II	113
2522.985	In I	5
2523.410	W I	12
2523.915	Sn I	13
2524.39	Ru II	124
2524.85	Ru II	97
2525.17	Ru I	113
2525.42	Ru II	
2525.63	Ru I	69
2526.03	Ta II	11
2526.7	Pb II	16
2526.82	Ru I	101
2526.88	Ru II	176
2527.07	Ru II	202
*2527.075	Os I	8, 15, 17
2527.135	Mo II	91
2527.25	Mo II	
2527.41	In III	8
2527.756	Os II	10
2527.763	W I	
2527.86	Ru II	149
2528.05	Ru II	214
2528.383	Mo II	71
2528.404P	Ba II	6
2528.486	W I	12
2528.52	Sb I	8
2528.71	Ru I	111
2528.852	Mo II	85
2528.874	Ru I	117
2529.340	Tc II	3
2529.474	Ir I	9
2529.61	Ru II	94
2529.807	Mo II	27
2530.327	Mo II	85
2530.41	Ru II	125
2530.64	Ru I	148
2530.86	Tl II	18
2531.19	Hf II	11
2531.60	La II	23
2532.13	Ta II	3
2532.295	Mo II	51
Air		
2533.131	Ir I	7
2533.14	La II	4
*2533.23	Ru I	60, 93
2533.310	Re I	18
2533.519	Au II	15
2533.580	Mo II	71
2533.635	W I	3
2533.97	Ru II	125
2534.41	Mo II	73
2534.457	Ir I	5
2534.57	Pd II	21
2534.57	Rh II	36
2534.764	Hg I	8
2534.92	Ru II	97
2534.95	Po I	5
2535.23	Ru II	201
2535.30	Ag II	6
2535.60	Ru II	111
2536.000	W II	14
2536.517	Hg I	1
2537.225	Ir I	3
2537.33	Hf II	12
2537.73	Rh II	25
2537.96	Ta II	12
2537.997	Os II	1
2538.444	Mo II	8
2539.09	Ru I	175
*2539.436	Mo II	91, 92
*2539.72	Ru II	94, 149
2540.133	Mo II	115
2540.30	Ru II	94
2540.431	Mo I	28
2540.513	Re I	16
*2540.741	Os I	10, 22
2541.16	Rh II	55
2541.251	Mo II	8
2541.28	Ru I	155
*2542.016	Ir I	3
2542.04	Ru II	146
2542.041	Mo II	116
2542.146	Ru II	148
2542.23	Ru II	165
2542.512	Os I	15
2542.668	Mo II	8
2542.783	Mo II	8
2543.216	Ru II	96
2543.227‡	Tc II	1
2543.272	Ru II	94
2543.47	Ru II	146
*2543.611	Mo II	50, 139
2543.67	Ru I	149
2543.971‡	Ir I	5
2544.22	Ru I	110
2544.37	Ta II	25
2544.456	Mo II	139
2544.5	Bi II	6
2544.72	Cd I	10
2544.739	Re I	15
2544.807	Tc II	3
2545.340	W I	8
2545.36	Rh II	52
2545.485	Re I	20
2545.50	Ta II	2
2545.600	Mo II	71
2545.76	Ru I	114
Air		
2546.034	Ir I	6
2546.14	Ru I	99
2546.40	La II	24
2546.549	Sn I	2
2546.668	Ru I	60
2547.136	W I	8
2547.205	Ir I	2
2547.34	Mo II	85
2547.562	Mo II	106
2547.66	Ru II	164
2547.930	Tc II	3
2548.19	Hf II	21
*2548.212	Mo II	50, 105
2548.832	Os II	11
2549.121	Ru II	95
2549.171	Ru II	125
2549.351	Mo II	115
2549.470	Ru I	98
2549.56	Ru I	49
2549.66	Rh II	91
2549.79	Ru II	146
2549.965	Ru I	137
2550.09	Re II	15
2550.740	Mo II	114
2551.349	W I	1
2551.37	Hf II	36
2551.72	Ru I	59
2551.84	Pd II	22
2551.976	Cd II	13
2551.98	Ru II	149
2552.021	Re I	23
2552.193	Mo II	71
2552.53	Tl I	10
2552.60	La II	11
2552.666	Au II	15
2552.827	Cd II	13
2552.98	Tl I	10
2553.168	W I	11
2553.49	Ru II	122
2553.53	Cd I	11
2553.59	Re II	9
2553.824	W I	11
2554.63	Re II	13
2554.63	Ta II	3
2554.64	Sb I	26
2554.864	W II	1
2555.07	Ta I	24
2555.106	W II	3
2555.347	Ir I	4
2555.364	Rh I	23
2555.420	Mo II	72
2555.93	Ru II	148
2556.004	Ru I	117
2556.08	Ru II	146
2556.309	Mo II	72
2556.316	Ru I	113
2556.512	Re I	23
2556.749	W I	3
2556.756	Mo II	72
2557.21	Rh II	85
2557.33	Po I	4
2557.378	Mo II	85
2557.71	Ta II	12
2558.01	Po I	1
2558.540	Ru I	58

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I A	Spectrum	Multiplet No.
Air		
2558.606	Tc II	3
2558.867	Mo II	71
2559.076	Re I	2
2559.121	Mo II	72
2559.19	Hf II	29
2559.43	Ta I	11
2559.500	W II	16
2559.688	Mo II	85
2559.92	Rh II	25
2560.124	W I	23
2560.150	In I	3
2560.265	Ru I	154
2560.37	La II	11
2560.669	Mo II	91
2560.845	Ru I	
*2561.84	La II	15, 22
2561.968	W I	11
2562.078	Mo II	129
2562.31	Po I	
2562.87	Ag III	12
2563.157	Ru I	145
2563.164	Os II	8
2563.166	W II	21
2563.61	Hf II	13
2563.855	Hg I	10
2563.914	W II	8
2564.177	Ir I	6
2564.186	Re I	15
2564.334	Mo II	85
2565.188	Ru I	104
2565.51	Pd II	17
2565.69	Ru II	124
2566.09	La II	7
2566.242	I II	58
2566.25	Ru II	213
*2566.257	Mo II	8, 104
*2566.590§	Ru I	106
*2566.59 §	Ru II	112
2567.034	Tc II	3
2567.051	Mo I	7
2567.507	Mo II	106
2567.620	W II	6
2567.893	Ru I	47
2568.64	Re II	4
2568.69	Cs II	14
2568.772	Ru I	96
2568.834	Os I	22
2568.88	Ru II	175
2569.10	Rh II	53
*2569.13	Ta II	3, 36
2569.298	W II	17
2569.56	Pd II	20
2569.729	Ru I	137
2570.093	Ru I	6
2570.847	Mo II	
2570.973	Ru I	
2571.09	Ru II	146
2571.447	Mo II	115
2571.459	W II	3
2571.576	Sn I	10
2571.68	Hf II	11
2571.782	Os I	15
2571.81	Re II	4
2572.241	Mo II	71
2572.282	Ru I	151
Air		
2572.336	Mo I	28
2572.366	W II	9
2572.412	Ru I	49
2572.475	Mo II	85
2572.67	Ru II	95
2572.701	Ir I	3
2572.873	Mo II	114
2572.930	Cd II	6
2573.03	Cs II	15
2573.44	Ru II	173
2573.54	Ta I	10
2573.80	Ta I	20
2573.91	Hf II	28
2574.06	Sb I	22
2574.06	Ru II	219
2574.425	Mo II	8
2574.442	Tc II	3
2575.242	Ru I	46
2575.47	Ta I	36
2575.63	Ag I	12
2575.807	Mo II	104
2576.09	Ru II	148
2576.168	W II	15
2576.281	Tc II	3
2576.285	Hg I	9
2576.372	W II	19
*2576.565	Mo II	70, 150
2576.6	Pb II	16
2576.83	Hf II	15
2576.954	Ru I	202
2576.99	Ru II	123
2577.265	Ir I	6
2577.269	Pb I	5
2577.861	Tc II	3
2578.15	Hf II	11
2578.25	Ta II	19
2578.321	Os II	9
2578.347	Mo II	105
2578.571	Ru I	105
2578.910	Mo II	129
2578.948	Ru I	104
2579.022	Ru I	180
*2579.06	Ta II	13, 17
2579.10	Ru II	148
2579.222	Ru I	144
2579.437	Mo II	8
2579.536	Ru I	150
2579.542	W II	6
2579.62	Ta I	9
2580.026	Os II	8
2580.14	Tl I	2
2580.27	Cd I	10
2580.337	W I	6
2580.487	W I	3
2580.77	Ag II	21
2580.803	Ru I	109
2580.82	La II	7
2581.052	Os I	13
2581.140	Ru I	108
2581.206	W II	5
2581.70	Rh II	64
2581.911	Ru I	55
2581.958	Os I	13
2582.157	Mo I	7
2582.51	Hf II	2
Air		
2582.55	La II	7
2582.794	I II	58
2582.96	La II	11
2583.033	Ru I	144
2583.07	Ru II	124
2584.136	Ru I	103
2584.386	W I	26
*2584.49	Ta II	22, 32
2585.235	W I	
2585.340	Ru I	173
2585.59	Tl I	9
2585.739	Ru I	55
2585.966	Mo II	70
2586.35	La II	22
2586.41	Rh II	63
2586.61	Ra II	3
2586.788	Re I	20
*2587.30	Rh II	36, 44
2587.63	Po I	3
2587.87	Ru II	95
2588.58	Re II	13
2588.788	Mo II	70
2589.171	W II	5
2589.25	Au I	12
2589.43	Ru II	124
2589.569	Ru I	64
2590.04	Au I	7
2590.755	Os I	5
2591.04	Ru II	145
2591.116	Ru I	102
*2591.26	Ru II	164, 174
2591.33	Hf II	3
2591.582	Re I	15
2591.637	Ru I	149
2591.776	Mo II	69
2591.982	Mo I	28
2592.022	Ru I	148
*2592.056	Ir I	1, 9
2592.14	Cd I	9
2592.16	Rh II	25
2592.54	Ta II	26
2592.782	Mo II	70
2593.09	Ta I	27
2593.378	Mo II	49
2593.458	I II	58
2593.66	Rh II	80
2593.68	Ta II	4
2593.700	Ru I	213
*2593.707	Mo II	7, 106
2594.424	Sn I	12
2594.854	Re I	15
2594.855	Ru I	42
2595.15	Ra II	3
2595.234	Re I	4
2595.26	Ta I	27
*2595.40	Rh II	25
2595.407	Mo I	28
2595.58	Ta II	1
2595.81	Ru II	124
2596.08	La II	8
2596.46	Ta II	3
2596.637	Ba I	4
2596.84	Ag II	39
2597.09	Rh II	80
2597.322	Ru I	104

FINDING LIST—CONTINUED

I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2597.392	Mo II	70	2612.895	Ru I	8	2626.62	Rh II	58
2597.517	Ru I	178	2613.058	Os I	12	2626.95	Hf II	11
2598.05	Sb I	8	2613.076	W I	8	2627.56	Mo I	27
2598.09	Sb I	7	2613.087	Mo I	28	2627.650	Ru I	91
2598.19	Ta II	31	2613.61	Hf II	37	2627.91	Bi I	7
2598.361	Ru I	104	2613.652	Pb I	3	2628.02	Pt I	4
2598.574	Ru I	101	2613.818	W I	6	2628.14	Rh II	53
2598.748	W II	7	*2614.055	Ru I	5, 5	2628.26	Re II	18
2598.80	Ru II	122	2614.176	Pb I	3	2628.262	Ru I	172
2599.040	Ir I	6	2614.233	Tc I	2	2628.28	Pb I	6
2599.41	Ta I	40	2614.558	Re I	26	2628.536	Ru I	144
2599.856	Re I	18	2614.56	Ag II	21	2628.74	Mo I	28
2600.104	Mo II		2614.585	Ru I	12	2628.75	Ru II	208
2600.233	Mo II	113	2614.86	Ru II	121	2628.84	Ta II	14
2601.05	Ta I	33	2614.984	Ir I	1	2628.996	W II	9
2601.430	W II	13	*2615.05	Ru II	148, 213	2629.06	Cd I	9
2601.456	Ru I		2615.093	Ru I	99	2629.852	Mo I	27
2601.756	In I	4	2615.124	W I	15	2629.925	Ru I	139
2601.79	La II	24	2615.398	Mo I	27	2630.04	Ru II	200
2601.963	W I	11	2615.446	W II	17	2630.231	Ru I	99
2602.516	W II		2615.873	Tc I	2	2630.30	Pd II	23
2602.802	Mo II	7	2616.33	Ru II	188	2630.33	Rh II	25
2603.018	W II	20	2616.401	Au II	16	2630.741	Mo II	102
2603.31	Rh II	52	2616.72	Re II	13	2631.09	Ru II	95
2603.49	Ta II	5	2616.759	Pt II	31	2631.304	Ru I	90
2603.544	W I	11	*2616.792	Mo I	27	2631.569	Ru I	101
2604.13	Ru II	123	2617.01	Ag II	26	2631.79	Sn III	23
2604.315	Ru I	146	2617.08	Ru II	123	2631.94	La II	27
2605.079	Mo II	102	2617.22	Ta II	28	2632.127	Ru I	198
2605.347	Ru I	93	2617.677	Ru I	93	2632.25	Cd I	11
2605.826	Mo II	104	2617.781	Ir I	4	2632.485	W I	18
2605.853	Ru I	60	2617.790	Ru I	153	2632.496	Ru I	144
2606.14	Ag II	21	2618.61	Sn III	24	2632.695	W I	6
2606.37	Hf II	3	2618.737	Ru I	93	2632.73	Ru II	147
2606.388	W I	1	2618.807	Cd III	19	2632.855	Mo II	128
2606.43	Ta II	30	2619.014	Ru I	99	2633.129	W I	2
2606.60	Mo II		2619.340	Mo II	7	2633.446	Ru I	179
2607.03	Hf II	13	2619.35	Ru II	147	2633.52	Mo II	103
2607.348	Ru I	5	2619.666	Ru I	61	2633.686	Mo I	
2607.378	W I	3	2619.759	Mo II	7	*2633.78	Ta II	14, 31
2607.381	Mo I	28	2619.883	Ir I	1	2633.82	Ru II	112
2607.92	Ru II	110	2619.944	Os I	5	2634.578	W II	20
2608.246	Ir I	2	2620.026	Re I	23	2634.778	Ba II	6
2608.320	W I	15	2620.344	Re I	31	2634.909	Tc II	5
2608.50	Re II	4	2620.607	Ru I	133	2635.21	Ru II	144
2608.63	Ta I	18	2620.69	Ru II	145	2635.28	Rh II	36
2608.855	Tc I	2	2620.757	W II	16	2635.34	Ru II	207
2608.99	Tl I	8	2621.28	Ru II	123	2635.379	W II	16
*2609.062	Ru I	51, 109	2621.818	Os I	1	2635.59	Ta II	2
2609.17	Rh II	53	2622.576	Rh I	25	2635.83	Re II	10
2609.215	Mo II	151	2622.74	Hf II	8	*2635.84 §	Ru II	119
2609.44	Cs II	12	2623.408	Mo II	130	*2635.861 §	Ru I	148
2609.476	Ru I	199	2623.824	Ru I	225	2636.54	Ru II	94
2609.77	Tl I	8	2624.17	Ru II	173	2636.637	Re I	3
2609.993	Tc II	1	2624.643	Mo II	103	2636.663	Ru I	212
2610.09	Ru II	109	2625.220	W I	11	2636.67	Ta I	22
2610.34	La II	5	2625.338	Pt II	12	2636.672	Mo II	7
2611.045	Ru I	105	2625.39	Ru II	206	2636.84	Ru II	212
2611.295	Ir I	5	2625.41	Rh II	35	2636.90	Ta I	25
2611.50	Ru II	95	2625.886	Rh I	19	2636.997	Hf I	9
2611.603	Re I	15	2626.099	Mo II	128	2637.01	Re II	13
2612.06	Ru I	93	2626.205	Ru I	92	2637.133	Os I	1
2612.31	Sb I	25	2626.356	Ru I	49	2638.515	Ru I	93
2612.52	Ru II	174	2626.41	Ru II	122	2638.71	Hf II	2
2612.62	Ta II	2	2626.478	Ru I	44	2638.768	Mo II	7

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I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2639.121	Ru I	144	2651.289	Ru I	42	2661.983	Ir I	5
2639.19	Ta II	18	2651.60	La III	3	2662.626	Ir I	6
2639.33	Pt I	9	2651.71	Cs II	13	2662.835	W I	8
2639.50	Cd I	8	2651.839	Ru I	42	2662.880	Ru II	111
2639.58	Ru II	122	2651.874	Ru I	95	2663.160	Pb I	4
2639.685	Mo I		2651.903	Re I	5	2663.33	Po I	
2639.712	Ir I	1	2651.91	Rh II	44	2663.556	W I	24
2640.324	Ru I	57	2652.039	Hg I	8	2663.633	Re I	20
2640.989	Mo I	28	2652.351	Tc II	5	2663.69	Rh II	35
2641.369	Ba II	6	2652.592	W I	25	2664.25	Ta II	32
2641.41 ‡	Hf II	7	2652.60	Sb I	23	*2664.321 §	W I	15
2641.49	Au I	4	2652.662	Rh I	4	*2664.346 §	W II	21
2641.63	Ru II	189	2653.27	Ta I	15	*2664.48	Rh II	41
2642.752	Re I	20	2653.348	Mo II	7	2664.761	Ru I	7
2642.80	Ru II	121	2653.424	W II	20	2664.786	Ir I	1
2642.88	Ru II	147	2653.48	La I	6	2664.966	W I	2
2642.946	Ru I	96	2653.568	W II	4	2665.53	Sn III	23
2643.006	Tc II	6	2653.679	Hg I	8	2665.57	Tl I	7
2643.14	Ru II	93	2653.693	Ru I	174	2665.60	Ta II	2
2643.296	W II	13	2653.95	Ru II	121	2665.719	Ru I	141
2643.56	Sn III	23	2654.120	Re I	15	2665.733	Tc II	6
2643.73	Ra II	6	2654.659	W I	24	2665.98	Hf II	20
2643.88	Ta I	32	2654.76	Rh II	63	2666.493	W II	6
2644.114	Os I	1	2654.804	Ru I	201	2666.54	La II	29
2644.138	Mo I		2655.027	Mo I	29	2666.750	Mo I	27
2644.186	Ir I	3	2655.127	Hg I	7	2666.829	Ru I	177
2644.343	Mo II	7	2655.221	Ru I	9	2667.390	Ru II	92
2644.496	Tc II	6	2656.235	Ru II	92	2667.79	Ru II	93
2644.58	Ta II	19	*2656.540	W I	6, 15	2667.969	Ru I	97
2644.62	Ru II	146	2656.563	Ru I	202	2668.06	Ta I	24
2645.97	Ru II	120	2656.698	Ru I	142	2668.290	Hf I	24
2646.002	Ru I	197	2657.005	Mo II	153	2668.342	Ru I	48
2646.10	Sn III	23	2657.094	Pb I	2	2668.473	W I	30
2646.185	W I	8	2657.163	Ru I	201	2668.62	Ta I	4
2646.21	Ta I	40	2657.361	W I	11	2668.993	Ir I	5
2646.245	Tc II	6	2657.49	Hf II	29	2669.20	Rh II	85
2646.36	Ta I	16	2657.70	Te II	5	2669.371	W II	9
2646.487	Mo II	7	2657.85	Hf II	11	2669.39	Sb III	5
2646.87	Pt I	1	2658.036	W II	2	2669.43	Ru II	212
2647.011	Tc II	1	2658.114	Mo I	27	2669.57	Ta II	40
2647.128	Re I	2	2658.14	Ta II	19	2669.913	Ir I	4
2647.264	Ba II	5	2658.16	Pt I	11	2670.110	Tc II	6
2647.281	Rh I	23	2658.391	Ru I	56	2670.395	W II	19
2647.30	Hf II	11	2658.57	Sn III	23	2670.64	Sb I	7
2647.314	Ru I	49	2658.600	Os I	12	2670.818	Tc II	6
2647.47	Ta I	6	2658.75	Pd II	17	2671.472	W I	11
2647.726	W II		2658.86	Ta II	7	2671.838	Ir I	3
2647.730	Os I	8	2659.10	Rh II	65	2671.842	Re I	20
2648.451	Ru I	133	2659.40	Ta II	3	*2671.86	Mo II	10, 155
*2648.78 §	Ru II	93	2659.44 ‡	Pt I	1	2672.212	Ru II	111
*2648.782 §	Ru I	212	2659.617	Ru I	85	2672.354	Ru II	93
2649.050	Re I	23	2659.833	Os I	15	2672.50	Ta II	11
2649.335	Os I	17	2660.40	Cd I	10	2672.84	Mo II	7
2649.466	Mo I	27	2660.49	Ag II	11	2672.90	La II	13
2649.506	Ru I	100	2660.581	Mo II	6	2673.004	Ru II	93
2649.575	Ru I	99	2661.10	Te II	4	*2673.27	Mo II	10, 49
2649.593	Rh I	29	2661.169	Ru II	93	2673.412	Tc II	6
2649.66	Te II	5	2661.220	Mo I		2673.477	Ru I	85
2650.28	Ta I	36	2661.243	Sn I	2	2673.605	Ru I	47
2650.395	Ru I	89	2661.33	Ta I	25	2673.607	Ir I	3
2650.603	Tc II	5	2661.610	Ru II	40	2673.608	W II	
2650.84	Pt I	6	2661.82	Ru II	93	2674.219	Ru II	93
2650.93	Rh II	25	2661.861	Ru I	147	2674.339	Re I	4
2651.17	Hf II	34	2661.88	Ta I	7	2674.43	Rh II	36
2651.23	Ta II	4	2661.89	Hf II	13	2674.692	W I	

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I A	Spectrum	Multiplet No.
Air		
2674.885	Os I	20
2675.223	Tc II	6
2675.543	Ru II	212
2675.73	Ta II	37
2675.867	W I	2
2675.90	Ta II	4
2675.95	Au I	1
*2676.183	Ru II	92, 197
2676.28	Rh II	73
2676.489	Mo II	100
2676.828	Ir I	10
2676.969	Ru I	53
2677.13	Pt I	1
2677.276	W I	8
2677.56	Hf II	11
*2677.64	Cd I	8, 8
2677.77	La I	6
2677.796	W II	4
2678.759	Ru II	40
2678.81	Ta II	31
2678.878	W I	6
2679.638	W II	16
2679.763	Ru I	212
2679.855	Mo I	27
2680.046	W I	26
2680.06	Ta II	11
2680.585	Ru II	208
2680.66	Ta II	4
2681.373	Mo II	67
2681.38	Ag II	17
2681.422	W I	6
2681.49	La II	13
2681.60	Rh II	71
2682.46	La III	3
2682.699	Tc II	5
2682.76	Sb I	22
2683.226	W II	14
*2683.234	Mo II	6, 102
2683.347	W I	18
2683.35	Hf II	28
2683.558	Re I	26
2683.58	Rh II	90
2683.676	Ru I	200
2684.089	Ru I	227
2684.148	Mo II	7
2684.21	Rh II	36
2684.234	Tc II	5
2684.27	Ta I	12
2684.90	La III	4
2685.152	Ru II	142
*2685.16	Ta II	1, 9
2686.023	Tc II	5
2686.29	Ta I	43
2686.291	Ru I	85
2686.889	Ru II	145
2686.946	W II	23
2687.071	Ru II	120
2687.138	Ru I	9
2687.369	W I	29
2687.494	Ru II	92
2687.994	Mo II	6
2688.033	Tc II	6
2688.147	Ru II	92
2688.230	W II	18
2688.528	Re I	24
Air		
2688.583	Ru I	144
2688.72	Au I	6
2688.888	Ru I	81
2689.27	Ta II	7
2689.61	Rh II	42
2689.816	Os I	12
2689.894	Ru I	194
2690.382	Ru I	135
*2690.810	Ru I	138, 169
2691.094	W I	11
2691.289	W I	20
2691.31	Ta I	4
2692.120	Ru II	40
2692.25	Sb I	21
2692.251	Ru I	212
2692.39	Ta I	23
2692.63	Mo II	128
2692.842	Ru I	87
2693.30	Ru I	85
2693.34	Ta I	30
2693.653	Ru I	45
2693.744	Tc II	6
2694.233	Ir I	5
2694.314	Rh I	4
2694.382	W II	18
2694.52	Ta II	3
2694.75	Ta I	30
2694.994	W II	18
2695.217	Mo II	68
2695.47	La II	13
2695.670	W I	8
2696.75	Bi I	5
2696.80	Ta I	31
2696.839	Mo II	153
2697.07	Ru II	220
2697.12	Ru II	145
2697.510	Ru I	7
2697.514	W I	6
2697.514	Pb I	13
2697.714	W II	2
2697.805	Mo I	26
2698.167	Ru II	197
2698.29	Ta I	11
2698.40	Pt I	8
2698.844	W I	11
2699.404	Mo II	48
*2699.589	Os I	15, 22
2699.594	W I	15
2699.793	Ru I	9
2699.882	Ru I	133
2700.012	W I	18
2700.163	Ru II	163
2700.477	Ru I	133
2700.61	Rh II	44
2700.671	Ru I	87
2700.90	Au I	4
2700.999	Ru II	118
2701.337	Ru I	42
2701.409	Mo II	6
2701.485	W II	10
2701.875	Mo II	101
2702.115	W II	22
2702.13	La II	20
2702.38	Pt I	4
2702.524	W I	32
Air		
2702.632	Ba I	3
2702.639	Ru II	163
2702.78	Ta II	1
2702.833	Ru I	42
2703.467	W II	
2703.733	Rh I	22
2703.796	Ru I	92
2704.192	Ru II	163
2704.585	Ru II	199
2704.830	Ru II	163
2704.928	Mo II	153
2705.174	W I	
2705.60	Rh II	35
2705.612	Hf I	9
2705.88	Pt I	6
2705.92	Sn IV	15
2706.017	W I	7
2706.510	Sn I	1
2706.579	W I	20
2706.64	Hf II	27
2706.702	Os I	8
2706.73	Hf II	20
2707.07	La I	3
2707.310	Ru II	163
2707.477	Ru I	193
2707.877	W I	31
2707.969	Ru I	7
2708.188	W I	25
2708.592	W I	23
2708.635	Ru I	143
2708.841	Ru I	94
2708.927	W I	10
2708.96	Ra II	2
2709.198	Ru I	90
2709.23	Tl I	5
*2709.27	Ta II	8, 18
2709.582	W II	16
2710.12	Ta I	20
2710.207	Mo II	10
2710.228	Ru II	108
2710.265	In I	3
2710.67	Tl I	5
2710.73	Ta II	37
2710.792	W II	18
2710.928	Mo II	101
2711.21	Ag II	33
2711.481	Tc II	6
2711.58	Te II	5
2712.00	Hf II	9
2712.07	Ag II	21
2712.346	Mo II	155
2712.40	Cd I	9
2712.409	Ru II	40
2712.42	Hf II	8
2712.740	Ir I	2
2713.071	Ru II	207
2713.09	Pt I	10
2713.192	Ru I	133
2713.3	Bi II	7
2713.30	Rh II	94
2713.501	Mo II	7
2713.585	Ru II	119
2713.728	Ru I	87
2713.936	In I	3
2714.52	La I	5

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I A	Spectrum	Multiplet No.
Air		
2714.642	Os I	1
2714.66 ‡	Ta I	3
2715.233	Ru I	198
2715.27	Rh II	34
2715.346	W II	20
2715.43	La II	32
2715.474	Re I	20
2715.503	W I	14
2715.770	Re I	23
2715.773	Ru I	9
2716.132	Ru II	143
2716.322	W II	15
2716.580	Ru II	120
2716.78	Ru II	92
2717.001	Ru I	50
2717.18	Ta I	19
2717.180	W II	21
2717.357	Mo II	10
2717.401	Ru I	9
2717.447	Ru II	92
2717.513	Rh I	2
2717.97	Rh II	83
2718.044	W II	19
2718.37	Ta I	29
2718.50	Hf II	32
2718.546	Rh I	23
2718.90	Sb I	22
2718.906	W I	6
2719.02	Pt I	6
2719.331	W I	25
2719.51	Ru I	85
2719.717	Ru II	141
*2719.858	W I	6, 21, 27
2720.044	Os I	8
2720.404	W II	19
2720.594	W II	7
2720.74	Ta I	9
2721.562	Ru I	85
2721.650	W I	31
2721.77	Ag I	9
2721.862	Os I	5
2722.31	La I	1
2722.456	W I	32
2722.693	Ru I	85
2722.702	Re I	23
2722.805	W II	17
2723.85	Ta II	38
2724.066	Ru I	85
2724.193	Tc II	5
2724.352	W I	6
2724.43	Hg III	6
2724.864	Ru II	163
*2725.033	W I	7
*2725.062	W I	2
2725.150	Mo I	26
2725.465	Ru II	40
2725.52	In III	13
2725.57	La I	2
2725.656	Tc II	5
2726.15	In III	13
2726.969	Ru I	222
2726.983	Mo II	112
2727.44	Ta II	3
2727.77	Ta I	40
2728.836	Ru I	168
Air		
*2728.94 §	Rh II	59
*2728.946 §	Rh I	3
2729.455	Ru I	89
2729.620	W II	11
2729.680	Mo II	6
2729.85	La I	4
2729.936	W II	15
2730.124	I II	60
2730.212	Mo II	100
2730.225	Tc II	5
2730.325	Ru I	7
2730.700	Hf I	1
*2730.74	Ta II	34, 35
2730.932	Ru I	42
2731.56	Re II	13
2731.903	Ru I	136
2732.206	Re I	27
2732.40	La II	20
2732.805	Os I	12
2732.889	Mo II	6
2733.04	Re II	8
2733.178	W I	17
2733.578	Ru I	133
2733.67	Pt I	12
2733.88	Cd I	7
2733.96	Pt I	3
2734.345	Ru II	40
2735.26	Ta II	8
2735.669	Ru I	
2735.727	Ru I	2
2735.975	W I	31
2736.24	Ta I	8
2736.456	Ru II	187
2736.826	Ru II	142
2737.387	W II	
2737.40	Rh II	34
2737.463	Ru I	87
2737.606	Ru II	211
2737.783	Ru II	120
2738.45	Pt I	10
2738.77	Hf II	10
2739.217	Ru I	85
2739.243	Ba I	2
2739.26	Ta II	11
2739.372	Ru II	161
2739.92	Rh II	34
2740.217	Ru I	140
2740.554	Rh I	20
2740.801	W II	24
2741.16	Ta I	35
2741.314	Mo II	101
2741.75	Rh I	33
2742.401	Ru II	140
2743.185	Mo II	5
2743.426	W I	20
2743.513	Ru II	92
2743.637	Hf I	23
2743.78	Ag II	26
2743.92	Ag II	6
*2743.934 §	Ru II	40
*2743.934 §	Ru I	35
2744.193	Mo II	101
2744.448	Ru I	134
2745.074	Ru I	90
2745.078	Mo I	6
Air		
2745.158	Ru II	108
2745.394	Mo I	34
2745.827	Ru II	92
2746.068	Ru II	40
2746.305	Mo II	10
2746.404	Mo I	33
2746.695	Ru II	117
2746.83	Ta II	24
2746.883	Mo I	25
2746.885	Ru I	36
2747.005	W I	19
2747.438	Re I	15
2747.63	Rh II	78
*2747.963 §	Ru I	82
*2747.963 §	Ru II	40
2748.045	Ru I	196
2748.23	Cs II	10
2748.24	Au I	4
2748.31	La II	32
2748.549	Cd II	6
2748.77	Ta I	18
2748.844	W I	10
2749.748	In II	11
2750.027	Mo II	148
2750.345	Ru I	210
2750.79	Mo I	
2751.470	Mo I	26
2751.82	Hf II	13
2752.110	Ru II	120
2752.145	Mo I	51
2752.262	Ru I	186
2752.447	Ru II	40
2752.49	Ta II	3
2752.763	Ru II	77
2752.84	La II	29
2753.433	Ru I	
2753.508	Ru II	117
2753.64	Re II	13
2753.85	Pt I	11
2753.878	In I	2
2754.09	Rh II	59
2754.286	Mo I	5
*2754.603	Ru I	47, 168
2754.90	Pt I	11
2755.258	Ru II	162
2755.36	Mo I	20
2756.065	Mo II	
2756.266	Mo I	4
2756.48	Ag II	30
2756.92	Hf II	37
2757.064	Ru I	82
*2757.09	Mo I	21, 23
2757.26	Ta II	19
2757.798	Ru I	212
2757.808	Os I	24
2757.996	Re I	26
2758.633	Mo I	
2758.771	Hf I	8
2759.575	Mo I	24
2759.682	Ru I	87
2760.003	Mo I	32
2760.155	Ru I	211
2760.442	Rh I	17
2760.537	Mo II	101
2760.745	Ru II	144

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I A Air	Spectrum	Multiplet No.	I A Air	Spectrum	Multiplet No.	I A Air	Spectrum	Multiplet No.
2761.28	Rh II	72	2774.476	W I	14	2789.72	Hf II	36
*2761.418	Os I	5, 23	2774.480	Ru I	87	2789.77	Ta I	45
2761.533	Mo I	26	2774.772	Pt II	39	2789.83	Hf II	25
2761.56	La I	5	2775.047	Cd I	7	2790.27	Sb III	5
2761.587	W II	7	2775.11	Ta I	46	2790.427	Mo II	68
2761.634	Hf I	9	2775.175	Ru I	195	2790.72	Ta I	16
2761.65	Ta II	2	2775.358	In I	1	2791.158	Rh I	18
2761.91	Po I	3	2775.386	Mo II	6	2791.290	Re I	29
*2762.05	Ta II	38, 39	2775.631	Ru II	77	2791.37	Ta II	10
2762.071	Ru II	222	2775.77	Rh II	35	2791.51	La II	21
2762.304	Ru I	132	2775.902	Ru I	85	2791.553	Mo II	149
2762.339	W I	1	2776.509	W II	10	2791.67	Ta I	29
2763.08	Pd I	1	2776.85	Pd II	23	2791.961	W I	18
2763.133	Ru I	191	*2776.910	Os I	7, 21	2792.32	Ru II	117
2763.273	Os I	15	2776.99	Cs II	12	2792.641	Ru I	130
2763.295	Re I	19	2777.401	Ru II	205	2792.696	W I	5
2763.305	Mo II	148	2777.54	Ru II	117	2792.78	Rh II	33
2763.413	Ru I	2	2777.86	Mo II	5	2794.213	Pt II	30
2763.626	Mo II	10	2778.15	Rh II	36	2794.678	Ru I	218
2763.792	Re I	27	2778.388	Ru II	40	2794.744	Mo I	
2763.89	Cd I	8	2778.694	W II	19	2795.20	Ta II	19
2763.900	Ru I	133	2778.76	La II	20	2795.21	Ra II	7
2764.19	Cd I	8	2778.975	Ru II	117	2795.508	Ru I	193
2764.263	W II	1	2779.11	Ta I	17	2795.702	Rh I	3
2764.714	Ru I	42	2779.370	Hf I	7	2795.778	Tc II	4
2764.83	Rh II	41	2779.538	Rh I	34	2796.052	Mo I	14
2765.134	Ru II	110	2779.78	La II	29	2796.33	Ta I	6
2765.429	Ru II	77	2779.810	Sn I	11	2796.543	Ru I	191
2765.642	W I	28	2780.022	Mo II	5	2796.55	Ta I	42
2766.223	Ru I	88	2780.23	La II	21	2796.697	Ru I	170
2766.46	La I	4	2780.285	W I	32	*2796.727	Os I	7, 22
2766.54	Rh II	35	2780.34	Ta II	2	2796.777	Mo I	55
2766.563	Ru II	218	2780.759	Ru I	166	2797.01	Rh II	84
2766.992	Cd III	19	2780.82	Au I	11	2797.351	Ir I	3
2767.144	W I	35	2781.37	Ta I	39	2797.730	Tc II	4
2767.40	La II	31	2781.434	Re I	23	*2797.76	Ta II	2, 27
2767.516	Ru I	191	2781.79	Ta I	46	2797.775	Mo I	19
2767.54	Ag II	12	2781.82	Rh II	70	2797.921	Mo I	16
2767.92	Tl I	1	2782.142	W II	21	2798.029	Mo I	22
2768.326	W II	8	2782.205	Ru I	128	2798.40	Ta I	15
2768.926	Ru II	40	2782.552	Os I	5	2798.56	La II	21
2768.982	W I	2	2783.029	Rh I	19	2798.72	Ta II	16
2769.741	W I	10	2783.570	Re I	20	2798.779	Ru II	143
2769.762	Mo II	101	*2784.516§	Ru I	209	2798.910	Mo II	89
2769.95	Sb I	7	*2784.516§	Ru II	117	2799.042	W II	17
2770.296	Ru I	81	2784.96	Ta II	11	2799.27	Ta II	14
2770.417	Re I	15	2784.990	Mo II	34	2799.70	Ag II	24
2770.698	Ru I	167	2785.030	Sn I	11	2799.928	W I	7
2770.880	W I	6	2785.206	Re I	23	2799.981	Pt II	51
2771.060	Ru II	117	2785.224	Ir I	9	2800.24	Po I	3
2771.348	Ba II	5	2785.276	Ba I	1	2801.058	W II	13
2771.628	W I	20	2785.334	Ru I	36	*2801.484	Mo I	3, 3
2771.65	Pt I	3	2785.649	Ru I	42	2801.991	Pb I	2
2771.710	Mo II	148	2785.741	Ru II	117	2802.06	Ta I	14
2771.82	Ta II	32	2785.87	Ru II	179	2802.064	Au II	10
2772.459	Ru II	92	2786.306	Os I	12	2802.152	Ru II	141
2772.608	Ru I	195	2786.558	Re I	27	2802.30	Rh II	77
2773.07	Rh II	72	2786.798	Os I	7	2802.805	Ru I	85
2773.36	Hf II	7	2787.25	Ru II	221	2802.810	Tc I	3
2773.702	W I	33	2787.69	Ta I	34	2803.138	Mo I	
2773.99	Pt I	11	2787.823	Ru II	40	2803.22	Pt I	8
2773.999	W I	10	2787.832	Mo I	24	2803.4	Bi II	4
2774.01	Hf II	11	2787.92	Pd II	25	2803.465	Hg I	12
2774.18	Rh II	64	2787.984	W I	7	2803.496	Ru I	84
2774.401	Mo II	148	2789.50	Hf II	35	2803.95	Rh II	42

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I A Air	Spectrum	Multiplet No.
2804.067	Os I	27
2804.434	Hg I	12
2804.903	Ru II	162
2805.214	Au II	15
2805.344	Hg I	12
2805.588	Cd III	25
2805.787	Rh I	29
2805.936	W II	18
2806.29	Ta I	29
2806.59	Ta I	5
2806.759	Hg I	11
2806.77	Ru II	77
2806.906	Os I	1
2807.200	Ru II	217
2807.362	Mo I	18
2807.59	Pd II	25
*2807.750	Mo II	5
2807.915	Tc II	4
2808.00	Hf II	9
2808.221	Ru I	171
2808.383	Mo I	17
2808.39	La II	6
2808.935	Os I	7
2809.646	Tc II	4
2809.94	Mo I	14
2810.029	Ru I	2
2810.551	Ru I	3
2810.649	Ru II	199
2810.695	Ru I	181
2810.90	Ta I	41
2811.614	Tc II	4
2811.70	Ta II	14
2812.210	W II	13
2812.817	Ru I	
2813.311	Ru II	107
2813.575	Sn I	11
2813.694	Ru II	117
2813.76	Ra II	2
2813.87	Hf II	3
*2814.200	Os I	7, 23
2814.30	Ta II	5
2814.48	Hf II	19
2814.676	Re I	15
2814.77	Hf II	35
2814.79	Ta I	29
2814.862	Ru I	78
2814.93	Hg II	1
2815.34	Au I	13
2815.57	Ag II	32
2815.780	Os I	7
2816.153‡	Mo II	4
2816.515	Tc II	4
2816.94	Cs II	13
2817.092	Ru I	2
2817.10	Ta II	11
2817.50	Ta I	40
2817.591	Ru II	187
2817.685	Hf I	18
2818.060	W I	14
2818.359	Ru I	1
2818.809	Ru I	130
2818.950	Ru I	132
2819.13	Ta II	15
*2819.24	Rh II	43, 89
2819.37	Ta I	13
2819.626	Rh I	2
2819.746	Hf I	3
2819.78	Re II	8
2819.800	Au II	11
2819.951	Re I	20
2820.23	Hf II	1
2820.836	Rh I	2
2821.171	Ru I	218
2821.34	Ru II	159
2821.352	Tc II	4
2821.843	Mo II	152
2821.98	Ta I	50
2822.034	Ru I	40
2822.035	Mo II	5
2822.270	Pt II	46
2822.542	Ru II	77
2822.542	W II	9
2822.550	Au II	17
2822.68	Hf II	8
2823.170	Au II	18
2823.176	Ru II	204
2823.196	Pb I	3
2823.371	Rh I	17
2824.39	Ag I	8
2824.448	Ir I	5
2825.042	Tc II	4
2825.484	Ru II	211
2826.16	Tl I	4
2826.230	Ru II	140
2826.430	Rh I	33
2826.674	Ru II	140
2826.677	Rh I	32
2826.752	Mo I	37
2827.312	Rh I	16
2827.59	Ta II	6
2827.752	Mo II	127
2827.857	Ru I	2
2828.58	Ta II	42
2828.794	Mo I	53
2829.092	Ru II	141
2829.149	Ru I	38
2829.269	Os I	5
2829.33	Hf II	32
2829.788	Mo I	19
2829.79	Ta II	4
2829.821	W I	20
2829.946	Mo I	16
2830.064	W II	16
2830.29	Pt I	1
2831.180	Tc II	4
2831.236	W II	20
2831.379	W I	5
2831.442	Mo II	152
2831.84	Ru II	118
2832.624	Ru I	209
2832.70	Ta II	7
2833.060	Pb I	1
2833.285	Hf I	7
2833.62	Ta I	41
2833.630	W I	14
2833.806	Ru II	160
2833.999	Ru I	2
2834.077	Re I	26
2834.081	Cd II	14
2834.121	Rh I	34
2834.208	W II	19
2834.40	Ta I	41
2834.416	Mo II	34
2834.608	Re I	3
2834.784	Mo I	14
2835.342	Mo II	9
2835.44	Rh I	2
2835.638	W I	5
2835.906	Mo I	16
2836.117	Tc II	4
2836.143	Ru I	221
2836.307	Mo II	9
2836.404	Ir I	4
2836.46	Ra II	2
2836.569	Ru I	86
2836.721	Mo II	147
2836.90	Cd I	6
2836.905	In I	1
2836.970	Mo I	37
2837.345	W I	2
2837.422	Os I	22
2837.870	Au II	12
2837.904	Mo I	50
2838.173	Os I	4
2838.23	Ta II	30
2838.615	Ru I	206
2838.626	Os I	12
2839.158	Ir I	10
2839.340	W I	17
2839.99	Sn I	1
2840.348	Re I	18
2840.375	Tc II	4
2840.51	La II	32
2840.537	Ru I	36
2841.02	Pd II	16
2841.147	Ru II	204
2841.570	W I	10
2841.680	Ru II	77
2842.148	Mo II	5
2842.492	Mo II	90
2842.527	Ru I	224
2842.749	Ru I	181
2842.80	Ta I	41
2843.000	Re I	24
2843.170	Ru I	84
2843.51	Ta II	31
2844.24	Ta I	37
2844.396	Mo I	54
2844.396	Os I	12
2844.46	Ta II	2
2844.716	Ru II	184
2844.922	W I	
2845.34	Ta I	19
2845.537	Ru I	131
2845.73	Rh II	43
2845.832	Hf I	20
2846.318	Ru I	166
2846.391	Os I	10
*2846.537	Ru I	217, 226
2846.632	Mo II	67
2846.750	Ru I	43
2846.962	Au II	18
2847.087	Ru II	141
2847.4	Bi III	5
2847.67	Hg II	7

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I A	Spectrum	Multiplet No.
Air		
2848.022	W I	5
2848.238	Mo II	4
*2848.247	Os I	26, 28
2848.42	Sn IV	15
2848.51	Ta I	11
2848.586	Ru I	2
2849.21	Hf II	26
2849.591	Ru II	205
2849.725	Ir I	1
2850.62	Sn I	10
2850.697	Ru II	221
2850.762	Os I	7
2850.776	Mo I	15
*2850.967	Hf I	17, 22
2850.97	Ta I	3
2850.975	Re I	15
2850.98	Ta II	13
2851.11	Sb I	21
2851.171	Mo I	19
2851.21	Hf II	10
2852.01	Hf II	19
2852.083	W II	
2852.34	Ta II	31
2853.220	Mo II	99
2853.502	W I	24
2854.075	Ru I	4
2854.59	Pd II	16
2854.722	Ru II	77
2854.980	Ru II	185
2855.337	Os I	15
2855.6	Bi III	5
2855.90	La II	26
2856.009	Mo II	127
2856.030	W I	2
2856.044	Ru I	192
2856.164	Rh I	2
2856.68	Ta II	21
2856.900	Mo II	9
2856.935	Hg I	6
2857.128	Tc I	3
2857.145	W I	22
2857.28	Ta I	39
2857.780	Ru II	116
2858.042	W I	14
2858.133	In I	1
2858.43	Ta II	10
2859.002	Mo II	120
2859.110	Tc I	3
2859.484	W II	12
2859.574	Mo I	48
2860.014	Ru I	2
2860.063	Os I	28
2860.369	Ru I	204
2860.558	Hf I	1
2860.678	Pt II	51
2860.88	Ta II	7
2860.956	Os I	12
2860.988	Tc I	1
2861.01	Hf II	1
2861.408	Ru I	34
2861.70	Hf II	10
2861.718	Ru I	80
2862.830	Mo I	
2862.848	Ru II	141
2862.935	Rh I	22
Air		
2862.98	La II	18
2863.003	Ru I	75
2863.012	W I	2
2863.20	Mo II	67
2863.261	Ru II	158
2863.324	Ru I	39
2863.324	Sn I	1
2863.801	Mo II	99
2864.299	Mo I	52
2864.404	Rh I	14
2864.49	Ta I	47
2864.647	Mo I	13
2864.73	Xe II	9
2865.051	Pt II	51
2865.32	Ta II	25
2865.64	Mo II	26
2866.062	W I	7
2866.096	Ru II	218
*2866.14	Ta II	4, 8
2866.276	Ru II	159
2866.373	Hf I	6
2866.653	Ru I	3
2866.705	Mo II	34
2866.82	Mo II	152
2867.41	Ta II	32
2868.116	Mo II	111
2868.183	Ru I	36
2868.26	Cd I	7
2868.310	Ru I	129
2868.334	Mo II	118
2868.736	W II	19
2869.117	W I	
2869.567	Mo I	16
2869.83	Hf II	2
2870.213	Ru I	83
2870.573	Ru II	194
2870.903	Mo I	49
2871.186	Ru I	208
2871.37	Pd II	26
2871.40	Ta I	3
2871.493	Ru II	159
2871.506	Mo II	4
2871.642	Ru I	38
2871.897	Mo I	
2872.38	Au I	10
2872.405	Os I	1
2872.880	Mo II	154
2873.318	Pb I	2
2873.370	Ru I	36
2873.42	Au I	12
*2873.56 §	Ta I	9
*2873.56 §	Ta II	29
2873.62	Ag II	24
2873.636	Mo I	54
2874.050	Ru I	80
*2874.14	Ta I	29, 49
2874.847	Mo II	156
2874.955	Os I	15
2874.984	Ru I	1
2875.605	Ir I	7
2875.849	Pt II	53
2875.983	Ir I	11
2876.09	Ta I	41
2876.33	Hf II	26
2876.530	Mo I	48
Air		
2876.91	Mo I	
2877.092	Ru I	187
2877.351	Os I	22
2877.520	Pt II	48
2877.67	Ta II	12
2877.826	Ru I	130
2877.92	Sb I	7
2878.01	Pd II	24
2878.400	Os I	10
2878.632	I II	59
2878.658	Rh I	13
2878.721	W I	7
2878.79	Ag II	40
2878.84	Sn IV	7
2879.046	Mo II	145
2879.09	Ta II	7
2879.112	W I	5
2879.358	Ru I	41
2879.396	W I	1
2879.73	Ta I	3
*2879.75	Mo II	119
2880.00	Ta I	18
2880.65	La II	19
2880.760	Rh I	15
2880.77	Cd I	6
2881.19	Cs II	8
2881.23	Cd I	6
2881.273	Ru I	2
2881.60	Ta II	10
*2881.606	W I	14, 18
2881.656	Mo I	12
2882.112	Ru II	76
2882.366	Rh I	31
2882.545	Mo I	45
*2882.635	Ir I	5, 9
2883.45	Au I	6
2883.594	Ru I	3
2884.500	Ru I	40
2884.843	Ru I	2
2885.13	La II	19
2885.40	Ta II	11
2885.789	Mo II	89
2885.975	Rh I	29
2886.528	Ru I	4
2886.599	Mo I	49
*2886.923	W II	6
2886.982	Mo II	98
2887.132	Hf I	7
2887.542	Hf I	15
2887.66	Sn IV	7
2887.676	Re I	19
2887.734	Tc I	3
2887.993	Ru I	1
2888.171	Mo II	154
2888.624	Ru I	206
*2889.104	Rh I	1
2889.37	Ta I	48
2889.62	Hf I	4
2889.829	Mo I	13
2889.841	Rh I	28
2890.180	In II	9
*2890.26	Ta II	3, 22
2890.995	Mo II	4
2891.130	Ru I	185
2891.290	Mo II	34

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I A	Spectrum	Multiplet No.
Air		
2891.84	Ta I	2
2892.220	Rh I	2
2892.567	Mo I	43
2892.817	Mo II	34
2893.08	La II	19
2893.226	Mo I	58
2893.26	Pt I	12
2893.299	Au II	19
2893.731	Ru I	167
2893.87	Pt I	3
2894.15	Ta I	41
2894.322	Tc I	3
2894.446	Mo II	4
2895.064	Os I	22
2895.137	Mo II	118
2895.22	Xe II	11
2895.802	Ru I	205
2896.009	W I	2
2896.012	Re I	1
2896.06	Sn III	20
2896.063	Os I	19
*2896.340	Tc I	1, 3
2896.442	W I	5
2896.50	Ag II	36
2896.523	Ru I	3
2897.42	Mo II	146
2897.627	Mo II	26
*2897.63	Rh II	33, 63
2897.713	Ru II	139
2897.89	Pt I	6
2897.98	Bi I	7
2898.242	Ru II	210
2898.256	Hf I	3
2898.477	Mo II	156
2898.644	Mo I	45
2898.71	Hf II	19
2899.03	Ta I	2
2899.20	Ta II	40
2899.716	Ru I	165
2900.35	Ta I	39
2900.74	Ta II	19
2900.780	Mo II	138
2901.784	Ru I	80
2901.816P	Ru I	2
2901.87	Ta II	20
2901.937	Ru I	34
2901.951	Ir I	10
2902.026	Ru II	77
2902.04	Ta I	41
2902.087	Ru I	181
2902.09	Ag II	24
2902.235	Mo I	
2902.48	Re I	32
2902.621	Mo I	44
2902.854	Ru I	181
2903.055	Mo II	99
2903.074	Ru I	80
2904.412	Hf I	11
2904.760	Hf I	4
2904.799	Ir I	6
2905.24	Ta II	9
2905.260	Mo I	13
2905.651	Ru I	4
2905.730	Os I	11
2905.91	Au I	12
Air		
2906.051	Mo I	43
2906.315	Ru I	76
*2907.056	Au II	7, 15
2907.113	Mo II	34
2907.209	Rh I	2
*2907.235	Ir I	2
2908.883	Ru I	4
2909.061‡	Os I	1
2909.108	Mo II	4
2909.120	W I	17
*2909.212	Ru I	75, 223
2909.750	Ru II	186
2909.820	Re I	29
2910.15	Rh II	33
2910.425	Ru I	80
2910.483	W I	7
2910.997	W I	1
2911.915	Mo II	4
2912.30	Pt I	10
*2912.334	Os I	4, 30
2912.41	Ta II	22
2912.433	Ru I	40
2912.616	Rh I	21
2912.745	Ru I	76
2913.147	Tc I	3
2913.163	Ru I	190
2913.531	Mo I	
2913.536	Au II	6
2913.543	Sn I	20
2913.74	Mo II	156
2913.748	W II	20
2913.82	Mo II	138
2913.844	Os I	20
2913.999	Ru II	115
2914.12	Ta I	46
2914.294	Ru I	189
2914.672	Cd II	24
2914.73	Ta II	41
2914.84	Au I	6
2915.253	Mo I	57
2915.389	Mo I	44
2915.419	Rh I	27
2915.587	W I	
2915.614	Ru I	203
2916.112	Mo I	11
2916.251	Ru I	1
2916.27	Hg II	6
2916.365	Ir I	4
2916.370	Ru II	75
2916.48	Hf I	10
2917.132	Ru I	189
2917.258	Os I	15
*2917.56	Ta II	26, 27
2918.250	Au II	19
2918.254	W I	14
2918.32	Tl I	3
2918.521	Ru II	185
2918.591	Hf I	1
2918.633	W II	8
2918.835	Mo II	26
2918.96	Ta II	25
2919.31	Po I	7
2919.59	Hf II	8
2919.604	Ru I	4
2919.794	Os I	7
Air		
2920.07	Ag II	35
2920.254	Ru I	220
2920.949	Ru I	188
2921.52	Tl I	3
2921.912	Tc I	3
2922.13	Ta II	24
2922.347	Ru II	221
2922.50	Pd I	4
2922.732	Mo II	146
2923.103	W I	10
2923.215	Mo II	34
2923.387	Mo II	4
2923.539	W I	5
2923.90	La II	28
2923.906	Ru II	182
2924.024	Rh I	2
2924.10	Rh II	43
2924.320	Mo II	99
2924.613	Hf I	14
2924.792	Ir I	1
2925.067	Ru I	183
2925.28	Ta I	41
2925.41	Pd II	26
2925.410	Hg I	9
2925.416	Mo II	137
*2925.568	Os I	4, 29
2925.834	W II	
2926.15	Mo II	137
2926.743	Mo II	137
2926.80	Rh II	77
2927.119	Ru I	219
2927.42	Re I	20
2927.535	Ru II	76
2927.542	Mo II	146
2927.867	Cd II	24
2928.194	W I	7
2928.198	Tc I	3
2928.487	Ru I	187
2929.107	Rh I	20
2929.271	Cd II	24
2929.37	Ag II	11
2929.434	Ru I	129
*2929.507	Os I	1, 17
2929.79	Pt I	1
2929.86	La II	28
2929.895	Hf I	16
2930.39	Mo I	
2930.478	Mo II	4
2931.09	Cs II	9
2931.092	Mo I	13
2931.280	Os I	4
2931.941	Rh I	26
2932.630	In I	2
2933.232	Ru II	183
2934.173	Ru I	33
2934.293	Mo II	4
2934.24	Ag II	24
2934.642	Os I	7
2934.996	W I	2
2935.01	Pd II	24
*2935.196	Mo II	26
2935.517	Ru II	180
2935.698	Mo II	134
2936.005	Ru I	79
2936.009	W I	36

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I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.	I A	Spectrum	Multiplet No.
Air			Air			Air		
2936.247	Ru I	3	*2952.262	W II	12, 16	2969.47	Ta I	5
2936.504	Mo I	47	2952.489	Ru I	3	2969.618	W I	21
2936.61	W II		2953.00	Ta II	12	2970.08	Mo I	
2936.773	Mo II	137	2954.084	Ru II	139	2970.972	Os I	4
*2936.95	Ta II	22, 28	2954.201	Hf I	4	2971.547	Mo I	42
2937.043	Ru II	217	2954.224	Au II	13	2971.757	Ru I	205
2937.142	W I	34	*2955.154	Mo II	118, 137	2971.904	Mo II	99
2937.336	Ru I	79	2955.32	Ta II	39	2972.607	Mo II	33
2937.67	Mo I		2955.348	Ru I	207	2972.922	W I	18
2937.78	Hf II	7	2955.593	Ru I	76	2972.95	Mo I	
2938.02	Ta II	29	2955.65	Ra I	1	2973.390	Hf I	13
2938.24	Bi I	7	2955.828	Mo II	110	2973.976	Ru I	79
2938.292	Mo II	136	2956.057	Mo II	4	2974.377	W II	8
2938.55	Ag II	21	2956.84	Ta II	24	2974.54	Ta II	26
2939.047	W I	14	2956.915	Mo II	158	2975.390	Mo II	145
2939.135	Ru I	4	2956.997	In I	1	2975.89	Hf II	7
2939.26	Ta I	41	2957.59	Ta I	13	2976.22	Ta II	19
2939.265	Ir I	6	2957.88	Ta II	8	*2976.294	Re I	20
2939.676	Ru I	164	2957.996	Ru I	38	2976.476	W II	7
2939.757	W II	14	2958.01	Hf I	21	2976.578	Ru II	75
2939.938	Ru I	181	2958.90	Po I	6	*2976.898	Mo II	122
2940.090	Mo II	98	2959.812	Mo I	11	2976.923	Ru I	1
2940.10	Ta I	41	2960.146	W I	19	2976.99	Ta II	19
2940.204	W II	9	2960.228	Mo II	4	2977.106	W I	33
2940.68	Au I	9	*2961.012	Os I	4, 23	2977.219	Ru II	75
2940.762	Hf I	3	2961.020	W II	12	2977.26	Mo I	41
2941.050	In II	8	2961.327	Mo II	33	2977.471	Ru II	155
2941.214	Mo II	146	2961.538	Ru II	185	2977.59	Hf II	17
2941.36	Ta I	44	2961.685	Ru I	167	2977.637	Os I	15
2942.11	Te II	6	2961.80	Hf II	16	2977.679	Rh I	19
2942.244	Ru II	75	2962.148	Os I	4	2977.760	Mo II	120
2942.848	Os I	4	2962.212	Mo II	145	*2978.20	Ta II	29, 31
2942.860	Mo I	11	2962.266	Re I	15	2978.28	Mo I	11
2943.145	Re I	23	2962.884	Mo I		2978.361	Ru I	215
2943.151	Ir I	2	2962.90	La II	28	2978.607	Mo II	123
2943.364	Mo II	137	2962.994	Ir I	8	2978.638	Ru II	156
2944.214	Mo I	1	2963.398	Ru II	76	2979.288	Hf I	19
2944.398	W I	5	2963.54	Rh II	33	2979.32	Xe II	10
*2944.57	Ta II	33, 41	2963.786	Mo II	4	2979.713	Ru II	76
2944.71	Hf I	2	2964.02	Ta II	23	2979.787	Mo II	
2944.814	Mo II	157	2964.062	Os I	10	2979.860	W I	7
2945.098	Ru II	210	2964.520	W I	5	2979.946	Ru II	75
2945.59	Ta II	29	2964.885	Hf I	2	2980.6216	Cd I	6
2945.661	Ru II	76	2965.112	Re I	22	2980.815	Hf I	2
2945.680	Mo I	46	2965.14	Ta II	1	2980.966	Ru II	203
2945.946	Mo II	146	2965.168	Ru I	1	2981.116	Rh I	1
2946.03	Mo I	9	2965.202	Ir I	7	2981.34	Cd I	6
2946.61	Rh II	62	2965.276	Mo II	4	2981.517	Mo I	9
2946.68	Te II	7	2965.54	Ta I	1	2981.89	Cd I	6
2946.692	Mo II	145	2965.554	Ru II	75	2981.934	Ru I	1
2946.989	W I	5	2965.756	Re I	20	2982.130	Mo I	11
2947.14	Hf II	27	2965.93	Ta II	1	2982.727	Hf I	25
2947.290	Mo II	137	2966.549	Ru I	216	2982.80	In III	10
2947.388	W I	10	2966.953	Hf I	12	*2982.902	Os I	17, 25
2947.80	Ta I	30	2966.985	Mo II	135	2983.035	Mo I	38
2948.5	Pb II	15	2967.23	Hf II	16	2983.085	Rh I	2
2949.532	Os I	7	2968.29	Ta II	18	2983.44	La II	18
2949.762	Ir I	10	2968.398	Ru I	203	2983.590	Mo II	118
2949.92	Ta II	13	2968.468	Ru I	182	*2983.955	Mo II	134, 158
2950.4	Bi II	8	2968.663	Rh I	13	2985.15	Mo I	10
2950.50	La II	33	2968.775	Mo II	134	2985.309	Mo II	98
2950.670	Hf I	8	2968.81	Hf II	10	2985.76	La II	18
2951.401	Ru I	1	2968.94	Hf II	18	2985.800	Ir I	2
2951.84	Rh I	17	2968.952	Ru I	37	2985.835	Mo I	56
2951.90	Ta II	24	2969.04	Ta II	34	2986.147	Mo II	145

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I A Air	Spectrum	Multiplet No.
2986.202	Rh I	13
2986.81	Ta II	3
2986.897	Mo II	119
2986.989	Rh I	18
2987.294	W II	11
2987.347	Mo II	
2987.449	Rh I	31
2987.904	Mo I	39
2987.960	Mo II	134
*2988.225	Mo I	41
2988.57	Ta I	38
2988.676	Mo I	42
2989.03	Bi I	5
2989.49	Ta I	28
2989.78	Mo I	40
2989.855	Mo II	98
2990.617	Ir I	8
2990.714	W I	14
2991.453	Ru II	139
2991.621	Ru II	76
2992.083	Ru II	139
2992.120	Ru I	184
2992.250	Mo II	110
2992.363	Re I	1
*2992.840	Mo II	33, 118
2993.273	Ru I	34
2993.33	Bi I	6
2993.501	Mo II	33
2993.614	W I	14
2993.866	I II	59
2994.700	W II	
2994.820	Au II	13
2994.967	Ru I	1
2995.258	W I	10
*2995.528	Mo II	158
2996.078	Ir I	4
2996.891	Ru I	77
2997.192	Ir I	8
2997.326	Mo II	134
2997.402	Mo I	38
2997.408	Ir I	11
2997.613	Ru I	34
2997.647	Os I	20
2997.793	W I	7
2997.97	Pt I	3
2998.693	W II	7
2998.886	Ru II	76
2999.38	Ta II	23
2999.599	Re I	19
2999.789	Ru II	157
*3000.290	Mo II	119
3000.624	W II	16
3000.854	Mo I	40
3001.137	Re I	25
3001.425	Mo I	39

I A Air	Spectrum	Multiplet No.
3001.634	Ru I	76
3002.197	Mo I	1
3002.26	Pt I	6
3003.21	Po I	2
3004.45	Mo II	111
3006.588	Ru I	1
3007.124	Mo I	40
3008.08	In III	10
3008.82	In III	10
3009.136	Sn I	1
3010.258	Mo I	10
3011.948	Mo II	99
3016.4	Pb II	15
3016.80	Hf I	1
3017.235	Ru I	1
3019.78	Rh II	33
3020.530	Hf I	3
3020.871	Ru I	1
3021.498	Hg I	8
3022.748	Mo II	110
3023.303	Mo II	158
3023.475	Hg I	8
3023.911	Rh I	17
3024.08	Ta I	41
3024.62	Bi I	5
3025.29	Hf II	10
3025.606	Hg I	8
3025.88	La II	18
3027.487	Hg I	7
3027.49	Ta I	41
3027.780	Ru II	76
3027.92	Pd I	4
3028.406	Rh I	16
3030.315	Mo II	98
3031.16	Hf II	8
3032.442	Ru II	184
3033.24	Mo II	33
3033.44	Ra II	6
3034.120	Sn I	1
3034.922	Mo II	99
3035.792	Ru II	182
*3036.463§	Ru I	77
*3036.463§	Ru II	156
3042.480	Ru I	1
3043.438	Mo II	33
*3045.715	Ru I	76
3046.03	Hf II	25
3046.132	Ru II	76
3047.702	Ru II	76
3048.888	Mo II	157
3049.217	Rh I	28
3051.142	In I	1
3057.010	Hf I	10
3059.91	La II	30
3064.69	Pt I	1

I A Air	Spectrum	Multiplet No.
3067.398	Re I	1
3067.426	Hf I	1
3067.732‡	Bi I	1
3069.181	Ru I	37
3071.027	Rh I	14
3071.69	Sn IV	7
3074.789	Hf I	21
3077.660	Mo II	157
3078.754	I II	59
3080.842	Hf I	5
*3082.224	Mo II	118
3087.415	Rh I	13
3096.764	Hf I	3
3099.249	Mo II	123
3101.39	Hf II	10
3108.80	Re I	22
3109.12	Hf II	7
3116.95	Hf II	26
3119.980	Hf I	1
3124.402	Rh I	26
3127.817	Mo II	122
3134.72	Hf II	1
3139.34	Pt I	3
3152.603	Rh I	14
3156.688	Hf I	8
3159.84	Hf I	3
3164.385	Hf I	2
3172.949	Hf I	2
3175.046‡	Sn I	1
3191.187	Rh I	13
3194.20	Hf II	7
3206.108	Hf I	2
3227.991	Au III	57
3229.75	Tl I	2
3236.76	Hf I	3
3251.97	Pt I	11
3258.80	Pd I	4
3291.043	Hf I	12
3306.110	Hf I	5
3309.856	Au III	57
3328.21	Hf II	7
3402.512	Hf I	2
3495.75	Hf II	7
3519.24	Tl I	1
3529.43	Tl I	1

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Technical Note 35 (PB161895), Part I Table of Multiplets, and Part II Finding List, λλ2951Å–13154Å. 242 p. (1959).		$4.00

The above Technical Note may be purchased by the PB number from the Department of Commerce, Office of Technical Services, Washington 25, D.C.